

3- ٧

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{7}{8} - \frac{8}{10}$

▶3. $C = \frac{10}{6} + 1$

▶5. $E = 5,8 - \frac{6}{3}$

▶7. $G = \frac{7}{2} - \frac{10}{7}$

▶2. $B = \frac{3}{2} + \frac{10}{2}$

▶4. $D = \frac{3}{48} + \frac{7}{8}$

▶6. $F = 7 - \frac{8}{8}$

▶8. $H = \frac{9}{8} + \frac{7}{7}$

4- ٧

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{10}{3} + \frac{3}{4}$

▶3. $C = \frac{8}{8} + \frac{4}{9}$

▶5. $E = \frac{8}{3} + \frac{9}{4}$

▶7. $G = \frac{10}{7} + \frac{1}{7}$

▶2. $B = \frac{3}{10} + 9$

▶4. $D = \frac{1}{7} + 4,7$

▶6. $F = \frac{1}{9} + 1$

▶8. $H = \frac{9}{81} + \frac{5}{9}$

5- ٧

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{4}{5} + 6$

▶3. $C = \frac{4}{3} - \frac{4}{8}$

▶5. $E = \frac{2}{18} - \frac{1}{2}$

▶7. $G = \frac{4}{9} + \frac{9}{6}$

▶2. $B = 1 - \frac{1}{2}$

▶4. $D = \frac{5}{6} - \frac{6}{7}$

▶6. $F = \frac{3}{2} + \frac{3}{2}$

▶8. $H = \frac{6}{10} + 8,3$

6- ٧

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{8}{2} + 7,2$

▶3. $C = \frac{6}{3} + 1$

▶5. $E = \frac{8}{54} + \frac{2}{6}$

▶7. $G = \frac{1}{3} + 4$

▶2. $B = \frac{3}{8} + \frac{3}{5}$

▶4. $D = \frac{9}{4} + \frac{4}{7}$

▶6. $F = \frac{10}{5} - \frac{3}{5}$

▶8. $H = \frac{7}{4} - \frac{1}{7}$

7- ٧

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = 2,6 - \frac{6}{7}$

▶3. $C = \frac{8}{3} - 1$

▶5. $E = \frac{8}{8} - \frac{1}{7}$

▶7. $G = \frac{5}{72} - \frac{5}{9}$

▶2. $B = \frac{3}{9} + \frac{4}{9}$

▶4. $D = \frac{6}{7} + \frac{7}{6}$

▶6. $F = 6 - \frac{3}{8}$

▶8. $H = \frac{10}{9} + \frac{10}{5}$

8- ٧

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{10}{3} - \frac{10}{3}$

▶3. $C = 2,4 - \frac{7}{10}$

▶5. $E = \frac{3}{5} + \frac{10}{9}$

▶7. $G = \frac{7}{5} + 6$

▶2. $B = 1 - \frac{8}{10}$

▶4. $D = \frac{9}{2} - \frac{9}{3}$

▶6. $F = \frac{8}{4} - \frac{10}{16}$

▶8. $H = \frac{10}{3} - \frac{6}{10}$

9 : ...

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{2}{24} + \frac{1}{8}$

▶3. $C = 8 - \frac{4}{10}$

▶5. $E = \frac{10}{3} - \frac{1}{8}$

▶7. $G = \frac{9}{7} - \frac{2}{8}$

▶2. $B = \frac{3}{2} + \frac{5}{9}$

▶4. $D = 3,5 - \frac{6}{8}$

▶6. $F = \frac{2}{2} + 1$

▶8. $H = \frac{7}{10} - \frac{5}{10}$

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احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{1}{12} + \frac{1}{4}$

▶3. $C = \frac{6}{9} - \frac{3}{7}$

▶5. $E = \frac{4}{4} + \frac{6}{4}$

▶7. $G = \frac{7}{2} + 9$

▶2. $B = \frac{7}{8} + \frac{10}{10}$

▶4. $D = \frac{9}{8} - 1$

▶6. $F = \frac{9}{10} - \frac{5}{6}$

▶8. $H = \frac{6}{10} + 1,6$

; ...

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{9}{12} + \frac{9}{2}$

▶3. $C = \frac{6}{9} + 7,2$

▶5. $E = \frac{7}{7} - \frac{2}{5}$

▶7. $G = \frac{1}{5} + \frac{3}{9}$

▶2. $B = \frac{8}{7} + \frac{7}{7}$

▶4. $D = \frac{6}{5} - 1$

▶6. $F = \frac{7}{4} - \frac{7}{6}$

▶8. $H = 9 - \frac{8}{8}$

32 : ...

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{8}{3} + \frac{5}{4}$

▶3. $C = \frac{2}{7} + \frac{1}{6}$

▶5. $E = \frac{3}{9} + \frac{5}{9}$

▶7. $G = \frac{8}{3} - \frac{3}{24}$

▶2. $B = \frac{6}{5} - \frac{4}{8}$

▶4. $D = 1 - \frac{3}{10}$

▶6. $F = 5 - \frac{9}{5}$

▶8. $H = 2,7 - \frac{5}{3}$

33 : ...

احسب بتمعن ثم بسّط النتائج إن أمكن :

▶1. $A = \frac{5}{7} + \frac{1}{2}$

▶3. $C = 1 - \frac{5}{6}$

▶5. $E = 4,6 - \frac{1}{2}$

▶7. $G = \frac{8}{3} - \frac{5}{8}$

▶2. $B = \frac{4}{5} + \frac{2}{5}$

▶4. $D = \frac{8}{3} - \frac{2}{10}$

▶6. $F = \frac{5}{2} - \frac{9}{14}$

▶8. $H = \frac{10}{2} + 4$

3- 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{63}{10} \times \frac{40}{21}$

►2. $B = \frac{5}{6} \times \frac{3}{35}$

►3. $C = \frac{12}{35} \times \frac{10}{9}$

►4. $D = \frac{2}{21} \times \frac{49}{12}$

4- 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{42}{25} \times \frac{35}{12}$

►2. $B = \frac{40}{27} \times \frac{27}{50}$

►3. $C = \frac{21}{20} \times \frac{8}{9}$

►4. $D = \frac{1}{12} \times \frac{10}{9}$

5- 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{10}{49} \times \frac{49}{50}$

►2. $B = \frac{18}{25} \times \frac{25}{4}$

►3. $C = \frac{35}{27} \times \frac{18}{25}$

►4. $D = \frac{27}{14} \times \frac{28}{15}$

6- 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{7}{80} \times \frac{64}{5}$

►2. $B = \frac{35}{64} \times \frac{56}{25}$

►3. $C = \frac{20}{49} \times \frac{49}{10}$

►4. $D = \frac{3}{50} \times \frac{10}{27}$

7- 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{8}{63} \times \frac{35}{6}$

►2. $B = \frac{1}{10} \times \frac{50}{3}$

►3. $C = \frac{7}{18} \times \frac{9}{8}$

►4. $D = \frac{10}{63} \times \frac{27}{10}$

8- 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{8}{63} \times \frac{9}{8}$

►2. $B = \frac{28}{45} \times \frac{45}{8}$

►3. $C = \frac{18}{35} \times \frac{7}{27}$

►4. $D = \frac{9}{50} \times \frac{80}{27}$

9- 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{100}{27} \times \frac{63}{20}$

►2. $B = \frac{49}{40} \times \frac{8}{35}$

►3. $C = \frac{3}{8} \times \frac{16}{27}$

►4. $D = \frac{20}{63} \times \frac{21}{40}$

: 7

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{2}{15} \times \frac{21}{10}$ | ►2. $B = \frac{8}{21} \times \frac{7}{16}$

►3. $C = \frac{3}{14} \times \frac{4}{21}$ | ►4. $D = \frac{8}{15} \times \frac{15}{8}$

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احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{27}{80} \times \frac{70}{27}$ | ►2. $B = \frac{64}{35} \times \frac{21}{16}$

►3. $C = \frac{36}{49} \times \frac{7}{36}$ | ►4. $D = \frac{32}{15} \times \frac{45}{32}$

32 ...

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{63}{8} \times \frac{16}{81}$ | ►2. $B = \frac{10}{9} \times \frac{27}{16}$

►3. $C = \frac{80}{49} \times \frac{21}{40}$ | ►4. $D = \frac{20}{27} \times \frac{63}{50}$

33 ...

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

►1. $A = \frac{7}{24} \times \frac{42}{5}$ | ►2. $B = \frac{45}{16} \times \frac{24}{35}$

►3. $C = \frac{50}{21} \times \frac{63}{100}$ | ►4. $D = \frac{32}{63} \times \frac{35}{72}$

3- ٧ : ٣

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-5}{8} - \frac{5}{8} \times \frac{32}{9}$$

$$B = \frac{\frac{4}{3} - 10}{\frac{-5}{9} - 10}$$

$$C = \frac{-3}{5} \times \left(\frac{-12}{5} + \frac{-11}{12} \right)$$

4- ٧ : 4

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-2}{5} + 3}{\frac{5}{8} + 10}$$

$$B = \frac{-1}{3} \times \left(\frac{-13}{3} - \frac{-3}{5} \right)$$

$$C = \frac{-7}{9} + \frac{-5}{27} \div \frac{-4}{81}$$

5- ٧ : 5

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{3}{5} - \frac{1}{10} \div \frac{14}{15}$$

$$B = \frac{-1}{2} \times \left(\frac{10}{13} + \frac{7}{12} \right)$$

$$C = \frac{\frac{-2}{5} + 10}{\frac{-2}{5} + 8}$$

6- ٧ : 6

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{9}{25} + \frac{8}{25} \times -5$$

$$B = \frac{4}{3} \times \left(\frac{-11}{10} + \frac{-12}{13} \right)$$

$$C = \frac{\frac{-2}{5} + 9}{\frac{-3}{5} + 7}$$

7- ٧ : 7

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{3}{8} + 5}{\frac{-1}{5} - 4}$$

$$B = \frac{6}{5} \times \left(\frac{-13}{3} + \frac{1}{2} \right)$$

$$C = \frac{-24}{7} - \frac{4}{21} \times \frac{-7}{10}$$

8- ٧ : 8

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-3}{2} + \frac{-3}{8} \div \frac{-3}{2}$$

$$B = \frac{5}{8} \times \left(\frac{11}{4} + \frac{5}{13} \right)$$

$$C = \frac{\frac{-9}{7} + 8}{\frac{-9}{2} + 3}$$

9- : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-1}{3} + 8}{\frac{3}{5} - 8}$$

$$B = \frac{5}{7} \div \left(\frac{-7}{8} - \frac{2}{7} \right)$$

$$C = \frac{-40}{9} + \frac{10}{81} \div \frac{-10}{9}$$

: ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{8}{7} + 9}{\frac{-7}{4} - 5}$$

$$B = \frac{2}{3} - \frac{-8}{21} \times \frac{-7}{6}$$

$$C = \frac{-5}{3} \times \left(\frac{3}{2} + \frac{4}{3} \right)$$

; ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-4}{5} \div \left(\frac{-10}{3} - \frac{9}{10} \right)$$

$$B = \frac{-110}{13} + \frac{-22}{13} \div \frac{77}{130}$$

$$C = \frac{\frac{-3}{8} - 2}{\frac{-1}{4} - 3}$$

32- : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-5}{8} - 5}{\frac{-2}{3} - 5}$$

$$B = \frac{130}{7} - \frac{13}{7} \times \frac{49}{65}$$

$$C = \frac{-3}{4} \times \left(\frac{-5}{2} + \frac{-8}{11} \right)$$

33- : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-1}{3} \times \left(\frac{13}{5} - \frac{-13}{2} \right)$$

$$B = \frac{108}{11} - \frac{20}{11} \div \frac{-48}{55}$$

$$C = \frac{\frac{9}{2} + 10}{\frac{-10}{9} + 3}$$

34- : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-4}{5} - 8}{\frac{7}{8} - 8}$$

$$B = \frac{4}{5} + \frac{-12}{25} \times \frac{15}{14}$$

$$C = \frac{-8}{5} \div \left(\frac{3}{13} - \frac{10}{7} \right)$$

35 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$C = \frac{54}{13} + \frac{27}{26} \times \frac{13}{3}$$

36 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$C = \frac{\frac{3}{5} - 9}{\frac{9}{5} - 8}$$

37 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$C = \frac{9}{11} + \frac{15}{22} \div \frac{24}{11}$$

38 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$C = \frac{-6}{11} + \frac{-4}{11} \div \frac{-15}{11}$$

39 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$C = \frac{\frac{7}{3} + 4}{\frac{-3}{4} - 5}$$

3 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-45}{11} - \frac{-10}{33} \times \frac{44}{35}$$

$$B = \frac{5}{4} \div \left(\frac{1}{9} - \frac{1}{8} \right)$$

$$A = \frac{-7}{4} \div \left(\frac{-5}{13} + \frac{13}{9} \right)$$

$$B = \frac{\frac{5}{6} + 7}{\frac{7}{2} + 1}$$

$$A = \frac{-5}{6} \div \left(\frac{-9}{5} + \frac{7}{13} \right)$$

$$B = \frac{\frac{-9}{4} - 1}{\frac{4}{3} + 6}$$

$$A = -3 + \frac{3}{4} \times \frac{-7}{3}$$

$$B = \frac{10}{9} \div \left(\frac{-3}{2} - \frac{11}{13} \right)$$

$$A = \frac{\frac{9}{7} + 8}{\frac{9}{2} + 3}$$

$$B = \frac{-5}{24} + \frac{-35}{96} \times \frac{-6}{5}$$

$$C = \frac{-1}{9} \div \left(\frac{3}{7} + \frac{6}{11} \right)$$

3; 4; 7

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-7}{5} + 9}{\frac{-4}{9} - 10}$$

$$B = \frac{2}{9} \times \left(\frac{-13}{7} + \frac{-3}{13} \right)$$

$$C = \frac{28}{9} - \frac{7}{9} \div \frac{-7}{18}$$

42; 4; 7

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{8}{3} \times \left(\frac{7}{6} + \frac{-11}{5} \right)$$

$$B = \frac{8}{7} - \frac{-1}{35} \div \frac{-18}{49}$$

$$C = \frac{\frac{2}{7} - 6}{\frac{2}{9} + 1}$$

43; 4; 7

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-4}{3} + 3}{\frac{-7}{5} - 7}$$

$$B = \frac{-36}{5} + \frac{-96}{25} \times \frac{-5}{108}$$

$$C = \frac{3}{4} \times \left(\frac{12}{7} - \frac{-11}{12} \right)$$

44; 4; 7

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-1}{2} - 4}{\frac{-10}{7} - 5}$$

$$B = \frac{-11}{5} + \frac{11}{35} \div \frac{-44}{35}$$

$$C = \frac{5}{3} \div \left(\frac{-13}{5} - \frac{-11}{12} \right)$$

45; 4; 7

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = 10 - \frac{3}{2} \times \frac{-8}{5}$$

$$B = \frac{-2}{3} \times \left(\frac{-5}{7} - \frac{-13}{9} \right)$$

$$C = \frac{\frac{5}{7} - 6}{\frac{9}{7} + 6}$$

46; 4; 7

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-3}{4} + 1}{\frac{-4}{3} - 2}$$

$$B = \frac{-24}{5} - \frac{1}{10} \times \frac{-5}{6}$$

$$C = \frac{3}{2} \times \left(\frac{-6}{11} + \frac{9}{7} \right)$$

47 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-130}{3} + \frac{13}{15} \div \frac{-13}{14}$$

$$B = \frac{\frac{-4}{5} + 8}{\frac{-4}{3} + 5}$$

$$C = \frac{3}{10} \times \left(\frac{5}{4} - \frac{-1}{3} \right)$$

48 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = 45 + 5 \times \frac{-16}{45}$$

$$B = \frac{\frac{3}{4} + 5}{\frac{9}{8} - 3}$$

$$C = \frac{-3}{8} \times \left(\frac{-13}{12} + \frac{12}{5} \right)$$

49 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-7}{6} + 3}{\frac{5}{3} - 5}$$

$$B = \frac{3}{20} - \frac{3}{20} \times \frac{14}{15}$$

$$C = \frac{-4}{7} \times \left(\frac{1}{10} - \frac{-12}{11} \right)$$

4 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{32}{35} - \frac{-18}{35} \div \frac{12}{35}$$

$$B = \frac{-9}{10} \times \left(\frac{-1}{8} - \frac{-7}{3} \right)$$

$$C = \frac{\frac{-4}{3} + 10}{\frac{10}{7} - 7}$$

4 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = -1 - \frac{-2}{45} \div \frac{-1}{9}$$

$$B = \frac{9}{4} \div \left(\frac{-10}{11} - \frac{9}{4} \right)$$

$$C = \frac{\frac{-9}{4} + 5}{\frac{2}{7} + 4}$$

52 : ٧ : ٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-1}{5} \div \left(\frac{-6}{7} - \frac{3}{4} \right)$$

$$B = \frac{\frac{9}{5} - 4}{\frac{-3}{2} + 5}$$

$$C = \frac{-49}{5} - \frac{6}{5} \div \frac{-7}{4}$$

53 - ١٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{8}{5} \div \left(\frac{-4}{5} + \frac{5}{2} \right)$$

$$B = 6 - \frac{-21}{10} \times \frac{-40}{21}$$

$$C = \frac{\frac{6}{7} - 8}{\frac{9}{10} + 10}$$

54 - ١٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{10}{7} - 7}{\frac{-8}{3} + 2}$$

$$B = \frac{-1}{6} \times \left(\frac{-10}{13} + \frac{-9}{4} \right)$$

$$C = \frac{-35}{3} + \frac{5}{27} \times \frac{3}{5}$$

55 - ١٧

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-3}{10} + 10}{\frac{-5}{4} - 2}$$

$$B = \frac{8}{3} + \frac{-1}{3} \div \frac{8}{15}$$

$$C = \frac{-3}{4} \times \left(\frac{-6}{5} - \frac{-10}{7} \right)$$

الحلول

موقع الأستاذ بلحوسين لرياضيات التعليم المتوسط

<https://prof27math.weebly.com/>

3- /

احسب بتمعن ثم بسّط النتائج إن أمكن :

$$\text{►1. } A = \frac{7}{8} - \frac{8}{10}$$

$$A = \frac{7 \times 5}{8 \times 5} - \frac{8 \times 4}{10 \times 4}$$

$$A = \frac{35}{40} - \frac{32}{40}$$

$$A = \frac{3}{40}$$

$$\text{►2. } B = \frac{3}{2} + \frac{10}{2}$$

$$B = \frac{13}{2}$$

$$\text{►3. } C = \frac{10}{6} + 1$$

$$C = \frac{10}{6} + \frac{1 \times 6}{1 \times 6}$$

$$C = \frac{10}{6} + \frac{6}{6}$$

$$C = \frac{16}{6}$$

$$C = \frac{8 \times 2}{3 \times 2}$$

$$C = \frac{8}{3}$$

$$\text{►4. } D = \frac{3}{48} + \frac{7}{8}$$

$$D = \frac{3}{48} + \frac{7 \times 6}{8 \times 6}$$

$$D = \frac{3}{48} + \frac{42}{48}$$

$$D = \frac{45}{48}$$

$$D = \frac{15 \times 3}{16 \times 3}$$

$$D = \frac{15}{16}$$

$$\text{►5. } E = 5,8 - \frac{6}{3}$$

$$E = \frac{58 \times 3}{10 \times 3} - \frac{6 \times 10}{3 \times 10}$$

$$E = \frac{174}{30} - \frac{60}{30}$$

$$E = \frac{114}{30}$$

$$E = \frac{19 \times 6}{5 \times 6}$$

$$E = \frac{19}{5}$$

$$\text{►6. } F = 7 - \frac{8}{8}$$

$$F = \frac{7 \times 8}{1 \times 8} - \frac{8}{8}$$

$$F = \frac{56}{8} - \frac{8}{8}$$

$$F = \frac{48}{8}$$

$$F = \frac{6 \times 8}{1 \times 8}$$

$$F = 6$$

$$\text{►7. } G = \frac{7}{2} - \frac{10}{7}$$

$$G = \frac{7 \times 7}{2 \times 7} - \frac{10 \times 2}{7 \times 2}$$

$$G = \frac{49}{14} - \frac{20}{14}$$

$$G = \frac{29}{14}$$

$$\text{►8. } H = \frac{9}{8} + \frac{7}{7}$$

$$H = \frac{9 \times 7}{8 \times 7} + \frac{7 \times 8}{7 \times 8}$$

$$H = \frac{63}{56} + \frac{56}{56}$$

$$H = \frac{119}{56}$$

$$H = \frac{17 \times 7}{8 \times 7}$$

$$H = \frac{17}{8}$$

4- /

احسب بتمعن ثم بسّط النتائج إن أمكن :

$$\text{►1. } A = \frac{10}{3} + \frac{3}{4}$$

$$A = \frac{10 \times 4}{3 \times 4} + \frac{3 \times 3}{4 \times 3}$$

$$A = \frac{40}{12} + \frac{9}{12}$$

$$A = \frac{49}{12}$$

$$\text{►2. } B = \frac{3}{10} + 9$$

$$B = \frac{3}{10} + \frac{9 \times 10}{1 \times 10}$$

$$B = \frac{3}{10} + \frac{90}{10}$$

$$B = \frac{93}{10}$$

$$\text{►3. } C = \frac{8}{8} + \frac{4}{9}$$

$$C = \frac{8 \times 9}{8 \times 9} + \frac{4 \times 8}{9 \times 8}$$

$$C = \frac{72}{72} + \frac{32}{72}$$

$$C = \frac{104}{72}$$

$$C = \frac{13 \times 8}{9 \times 8}$$

$$C = \frac{13}{9}$$

$$\text{►4. } D = \frac{1}{7} + 4,7$$

$$D = \frac{1 \times 10}{7 \times 10} + \frac{47 \times 7}{10 \times 7}$$

$$D = \frac{10}{70} + \frac{329}{70}$$

$$D = \frac{339}{70}$$

$$\text{►5. } E = \frac{8}{3} + \frac{9}{4}$$

$$E = \frac{8 \times 4}{3 \times 4} + \frac{9 \times 3}{4 \times 3}$$

$$E = \frac{32}{12} + \frac{27}{12}$$

$$E = \frac{59}{12}$$

$$\text{►6. } F = \frac{1}{9} + 1$$

$$F = \frac{1}{9} + \frac{1 \times 9}{1 \times 9}$$

$$F = \frac{1}{9} + \frac{9}{9}$$

$$F = \frac{10}{9}$$

$$\text{►7. } G = \frac{10}{7} + \frac{1}{7}$$

$$G = \frac{11}{7}$$

$$\text{►8. } H = \frac{9}{81} + \frac{5}{9}$$

$$H = \frac{9}{81} + \frac{5 \times 9}{9 \times 9}$$

$$H = \frac{9}{81} + \frac{45}{81}$$

$$H = \frac{54}{81}$$

$$H = \frac{2 \times 27}{3 \times 27}$$

$$H = \frac{2}{3}$$

5- /

احسب بتمعن ثم بسّط النتائج إن أمكن :

►3. $C = \frac{8}{3} - 1$

$$C = \frac{8}{3} - \frac{1 \times 3}{1 \times 3}$$

$$C = \frac{8}{3} - \frac{3}{3}$$

$$C = \frac{5}{3}$$

►4. $D = \frac{6}{7} + \frac{7}{6}$

$$D = \frac{6 \times 6}{7 \times 6} + \frac{7 \times 7}{6 \times 7}$$

$$D = \frac{36}{42} + \frac{49}{42}$$

$$D = \frac{85}{42}$$

►5. $E = \frac{8}{8} - \frac{1}{7}$

$$E = \frac{8 \times 7}{8 \times 7} - \frac{1 \times 8}{7 \times 8}$$

$$E = \frac{56}{56} - \frac{8}{56}$$

$$E = \frac{48}{56}$$

$$E = \frac{6 \times 8}{7 \times 8}$$

$$E = \frac{6}{7}$$

►6. $F = 6 - \frac{3}{8}$

$$F = \frac{6 \times 8}{1 \times 8} - \frac{3}{8}$$

$$F = \frac{48}{8} - \frac{3}{8}$$

$$F = \frac{45}{8}$$

►7. $G = \frac{5}{72} - \frac{5}{9}$

$$G = \frac{5}{72} - \frac{5 \times 8}{9 \times 8}$$

$$G = \frac{5}{72} - \frac{40}{72}$$

$$G = \frac{-35}{72}$$

►8. $H = \frac{10}{9} + \frac{10}{5}$

$$H = \frac{10 \times 5}{9 \times 5} + \frac{10 \times 9}{5 \times 9}$$

$$H = \frac{50}{45} + \frac{90}{45}$$

$$H = \frac{140}{45}$$

$$H = \frac{28 \times 5}{9 \times 5}$$

$$H = \frac{28}{9}$$

8- تمرين 8

احسب بتمعن ثم بسّط النتائج إن أمكن :

►1. $A = \frac{10}{3} - \frac{10}{3}$

$$A = 0$$

►2. $B = 1 - \frac{8}{10}$

$$B = \frac{1 \times 10}{1 \times 10} - \frac{8}{10}$$

$$B = \frac{10}{10} - \frac{8}{10}$$

$$B = \frac{2}{10}$$

$$B = \frac{1 \times 2}{5 \times 2}$$

$$B = \frac{1}{5}$$

►3. $C = 2,4 - \frac{7}{10}$

$$C = \frac{17}{10}$$

►4. $D = \frac{9}{2} - \frac{9}{3}$

$$D = \frac{9 \times 3}{2 \times 3} - \frac{9 \times 2}{3 \times 2}$$

$$D = \frac{27}{6} - \frac{18}{6}$$

$$D = \frac{9}{6}$$

$$D = \frac{3 \times 3}{2 \times 3}$$

$$D = \frac{3}{2}$$

►5. $E = \frac{3}{5} + \frac{10}{9}$

$$E = \frac{3 \times 9}{5 \times 9} + \frac{10 \times 5}{9 \times 5}$$

$$E = \frac{27}{45} + \frac{50}{45}$$

$$E = \frac{77}{45}$$

►6. $F = \frac{8}{4} - \frac{10}{16}$

$$F = \frac{8 \times 4}{4 \times 4} - \frac{10}{16}$$

$$F = \frac{32}{16} - \frac{10}{16}$$

$$F = \frac{22}{16}$$

$$F = \frac{11 \times 2}{8 \times 2}$$

$$F = \frac{11}{8}$$

►7. $G = \frac{7}{5} + 6$

$$G = \frac{7}{5} + \frac{6 \times 5}{1 \times 5}$$

$$G = \frac{7}{5} + \frac{30}{5}$$

$$G = \frac{37}{5}$$

►8. $H = \frac{10}{3} - \frac{6}{10}$

$$H = \frac{10 \times 10}{3 \times 10} - \frac{6 \times 3}{10 \times 3}$$

$$H = \frac{100}{30} - \frac{18}{30}$$

$$H = \frac{82}{30}$$

$$H = \frac{41 \times 2}{15 \times 2}$$

$$H = \frac{41}{15}$$

9- تمرين 9

احسب بتمعن ثم بسّط النتائج إن أمكن :

►1. $A = \frac{2}{24} + \frac{1}{8}$

$$A = \frac{2}{24} + \frac{1 \times 3}{8 \times 3}$$

$$A = \frac{2}{24} + \frac{3}{24}$$

$$A = \frac{5}{24}$$

►2. $B = \frac{3}{2} + \frac{5}{9}$

$$B = \frac{3 \times 9}{2 \times 9} + \frac{5 \times 2}{9 \times 2}$$

$$B = \frac{27}{18} + \frac{10}{18}$$

$$B = \frac{37}{18}$$

►3. $C = 8 - \frac{4}{10}$

$$C = \frac{8 \times 10}{1 \times 10} - \frac{4}{10}$$

$$C = \frac{80}{10} - \frac{4}{10}$$

$$C = \frac{76}{10}$$

$$C = \frac{38 \times 2}{5 \times 2}$$

$$C = \frac{38}{5}$$

$$\blacktriangleright 4. D = 3,5 - \frac{6}{8}$$

$$D = \frac{35 \times 4}{10 \times 4} - \frac{6 \times 5}{8 \times 5}$$

$$D = \frac{140}{40} - \frac{30}{40}$$

$$D = \frac{110}{40}$$

$$D = \frac{11 \times \cancel{10}}{4 \times \cancel{10}}$$

$$D = \frac{11}{4}$$

$$\blacktriangleright 5. E = \frac{10}{3} - \frac{1}{8}$$

$$E = \frac{10 \times 8}{3 \times 8} - \frac{1 \times 3}{8 \times 3}$$

$$E = \frac{80}{24} - \frac{3}{24}$$

$$E = \frac{77}{24}$$

$$\blacktriangleright 6. F = \frac{2}{2} + 1$$

$$F = \frac{2}{2} + \frac{1 \times 2}{1 \times 2}$$

$$F = \frac{2}{2} + \frac{2}{2}$$

$$F = \frac{4}{2}$$

$$F = \frac{\cancel{2} \times 2}{1 \times \cancel{2}}$$

$$F = 2$$

$$\blacktriangleright 7. G = \frac{9}{7} - \frac{2}{8}$$

$$G = \frac{9 \times 8}{7 \times 8} - \frac{2 \times 7}{8 \times 7}$$

$$G = \frac{72}{56} - \frac{14}{56}$$

$$G = \frac{58}{56}$$

$$G = \frac{29 \times \cancel{2}}{28 \times \cancel{2}}$$

$$G = \frac{29}{28}$$

$$\blacktriangleright 8. H = \frac{7}{10} - \frac{5}{10}$$

$$H = \frac{2}{10}$$

$$H = \frac{1 \times \cancel{2}}{5 \times \cancel{2}}$$

$$H = \frac{1}{5}$$

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احسب بتمعن ثم بسّط النتائج إن أمكن :

$$\blacktriangleright 1. A = \frac{1}{12} + \frac{1}{4}$$

$$A = \frac{1}{12} + \frac{1 \times 3}{4 \times 3}$$

$$A = \frac{1}{12} + \frac{3}{12}$$

$$A = \frac{4}{12}$$

$$A = \frac{1 \times \cancel{4}}{3 \times \cancel{4}}$$

$$A = \frac{1}{3}$$

$$\blacktriangleright 2. B = \frac{7}{8} + \frac{10}{10}$$

$$B = \frac{7 \times 5}{8 \times 5} + \frac{10 \times 4}{10 \times 4}$$

$$B = \frac{35}{40} + \frac{40}{40}$$

$$B = \frac{75}{40}$$

$$B = \frac{15 \times \cancel{8}}{8 \times \cancel{8}}$$

$$B = \frac{15}{8}$$

$$\blacktriangleright 3. C = \frac{6}{9} - \frac{3}{7}$$

$$C = \frac{6 \times 7}{9 \times 7} - \frac{3 \times 9}{7 \times 9}$$

$$C = \frac{42}{63} - \frac{27}{63}$$

$$C = \frac{15}{63}$$

$$C = \frac{5 \times \cancel{3}}{21 \times \cancel{3}}$$

$$C = \frac{5}{21}$$

$$\blacktriangleright 4. D = \frac{9}{8} - 1$$

$$D = \frac{9}{8} - \frac{1 \times 8}{1 \times 8}$$

$$D = \frac{9}{8} - \frac{8}{8}$$

$$D = \frac{1}{8}$$

$$\blacktriangleright 5. E = \frac{4}{4} + \frac{6}{4}$$

$$E = \frac{10}{4}$$

$$E = \frac{5 \times \cancel{2}}{\cancel{2} \times 2}$$

$$E = \frac{5}{2}$$

$$\blacktriangleright 6. F = \frac{9}{10} - \frac{5}{6}$$

$$F = \frac{9 \times 3}{10 \times 3} - \frac{5 \times 5}{6 \times 5}$$

$$F = \frac{27}{30} - \frac{25}{30}$$

$$F = \frac{2}{30}$$

$$F = \frac{1 \times \cancel{2}}{15 \times \cancel{2}}$$

$$F = \frac{1}{15}$$

$$\blacktriangleright 7. G = \frac{7}{2} + 9$$

$$G = \frac{7}{2} + \frac{9 \times 2}{1 \times 2}$$

$$G = \frac{7}{2} + \frac{18}{2}$$

$$G = \frac{25}{2}$$

$$\blacktriangleright 8. H = \frac{6}{10} + 1,6$$

$$H = \frac{22}{10}$$

$$H = \frac{11 \times \cancel{2}}{5 \times \cancel{2}}$$

$$H = \frac{11}{5}$$

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احسب بتمعن ثم بسّط النتائج إن أمكن :

$$\blacktriangleright 1. A = \frac{9}{12} + \frac{9}{2}$$

$$A = \frac{9}{12} + \frac{9 \times 6}{2 \times 6}$$

$$A = \frac{9}{12} + \frac{54}{12}$$

$$A = \frac{63}{12}$$

$$A = \frac{21 \times \cancel{3}}{4 \times \cancel{3}}$$

$$A = \frac{21}{4}$$

$$\blacktriangleright 2. B = \frac{8}{7} + \frac{7}{7}$$

$$B = \frac{15}{7}$$

►3. $C = \frac{6}{9} + 7,2$

$$C = \frac{6 \times 10}{9 \times 10} + \frac{72 \times 9}{10 \times 9}$$

$$C = \frac{60}{90} + \frac{648}{90}$$

$$C = \frac{708}{90}$$

$$C = \frac{118 \times \cancel{6}}{15 \times \cancel{6}}$$

$$C = \frac{118}{15}$$

►4. $D = \frac{6}{5} - 1$

$$D = \frac{6}{5} - \frac{1 \times 5}{1 \times 5}$$

$$D = \frac{6}{5} - \frac{5}{5}$$

$$D = \frac{1}{5}$$

►5. $E = \frac{7}{7} - \frac{2}{5}$

$$E = \frac{7 \times 5}{7 \times 5} - \frac{2 \times 7}{5 \times 7}$$

$$E = \frac{35}{35} - \frac{14}{35}$$

$$E = \frac{21}{35}$$

$$E = \frac{3 \times 7}{5 \times 7}$$

$$E = \frac{3}{5}$$

►6. $F = \frac{7}{4} - \frac{7}{6}$

$$F = \frac{7 \times 3}{4 \times 3} - \frac{7 \times 2}{6 \times 2}$$

$$F = \frac{21}{12} - \frac{14}{12}$$

$$F = \frac{7}{12}$$

►7. $G = \frac{1}{5} + \frac{3}{9}$

$$G = \frac{1 \times 9}{5 \times 9} + \frac{3 \times 5}{9 \times 5}$$

$$G = \frac{9}{45} + \frac{15}{45}$$

$$G = \frac{24}{45}$$

$$G = \frac{8 \times \cancel{3}}{15 \times \cancel{3}}$$

$$G = \frac{8}{15}$$

►8. $H = 9 - \frac{8}{8}$

$$H = \frac{9 \times 8}{1 \times 8} - \frac{8}{8}$$

$$H = \frac{72}{8} - \frac{8}{8}$$

$$H = \frac{64}{8}$$

$$H = \frac{8 \times 8}{1 \times 8}$$

$$H = 8$$

32 - / - / - / - / - /

احسب بتمعن ثم بسط النتائج إن أمكن :

►1. $A = \frac{8}{3} + \frac{5}{4}$

$$A = \frac{8 \times 4}{3 \times 4} + \frac{5 \times 3}{4 \times 3}$$

$$A = \frac{32}{12} + \frac{15}{12}$$

$$A = \frac{47}{12}$$

►2. $B = \frac{6}{5} - \frac{4}{8}$

$$B = \frac{6 \times 8}{5 \times 8} - \frac{4 \times 5}{8 \times 5}$$

$$B = \frac{48}{40} - \frac{20}{40}$$

$$B = \frac{28}{40}$$

$$B = \frac{7 \times 4}{10 \times 4}$$

$$B = \frac{7}{10}$$

►3. $C = \frac{2}{7} + \frac{1}{6}$

$$C = \frac{2 \times 6}{7 \times 6} + \frac{1 \times 7}{6 \times 7}$$

$$C = \frac{12}{42} + \frac{7}{42}$$

$$C = \frac{19}{42}$$

►4. $D = 1 - \frac{3}{10}$

$$D = \frac{1 \times 10}{1 \times 10} - \frac{3}{10}$$

$$D = \frac{10}{10} - \frac{3}{10}$$

$$D = \frac{7}{10}$$

►5. $E = \frac{3}{9} + \frac{5}{9}$

$$E = \frac{8}{9}$$

►6. $F = 5 - \frac{9}{5}$

$$F = \frac{5 \times 5}{1 \times 5} - \frac{9}{5}$$

$$F = \frac{25}{5} - \frac{9}{5}$$

$$F = \frac{16}{5}$$

►7. $G = \frac{8}{3} - \frac{3}{24}$

$$G = \frac{8 \times 8}{3 \times 8} - \frac{3}{24}$$

$$G = \frac{64}{24} - \frac{3}{24}$$

$$G = \frac{61}{24}$$

►8. $H = 2,7 - \frac{5}{3}$

$$H = \frac{27 \times 3}{10 \times 3} - \frac{5 \times 10}{3 \times 10}$$

$$H = \frac{81}{30} - \frac{50}{30}$$

$$H = \frac{31}{30}$$

33 - / - / - / - / - /

احسب بتمعن ثم بسط النتائج إن أمكن :

►1. $A = \frac{5}{7} + \frac{1}{2}$

$$A = \frac{5 \times 2}{7 \times 2} + \frac{1 \times 7}{2 \times 7}$$

$$A = \frac{10}{14} + \frac{7}{14}$$

$$A = \frac{17}{14}$$

►2. $B = \frac{4}{5} + \frac{2}{5}$

$$B = \frac{6}{5}$$

►3. $C = 1 - \frac{5}{6}$

$$C = \frac{1 \times 6}{1 \times 6} - \frac{5}{6}$$

$$C = \frac{6}{6} - \frac{5}{6}$$

$$C = \frac{1}{6}$$

►4. $D = \frac{8}{3} - \frac{2}{10}$

$$D = \frac{8 \times 10}{3 \times 10} - \frac{2 \times 3}{10 \times 3}$$

$$D = \frac{80}{30} - \frac{6}{30}$$

$$D = \frac{74}{30}$$

$$D = \frac{37 \times 2}{15 \times 2}$$

$$D = \frac{37}{15}$$

$$\text{►5. } E = 4, 6 - \frac{1}{2}$$

$$E = \frac{46}{10} - \frac{1 \times 5}{2 \times 5}$$

$$E = \frac{46}{10} - \frac{5}{10}$$

$$E = \frac{41}{10}$$

$$\text{►6. } F = \frac{5}{2} - \frac{9}{14}$$

$$F = \frac{5 \times 7}{2 \times 7} - \frac{9}{14}$$

$$F = \frac{35}{14} - \frac{9}{14}$$

$$F = \frac{26}{14}$$

$$F = \frac{13 \times 2}{7 \times 2}$$

$$F = \frac{13}{7}$$

$$\text{►7. } G = \frac{8}{3} - \frac{5}{8}$$

$$G = \frac{8 \times 8}{3 \times 8} - \frac{5 \times 3}{8 \times 3}$$

$$G = \frac{64}{24} - \frac{15}{24}$$

$$G = \frac{49}{24}$$

$$\text{►8. } H = \frac{10}{2} + 4$$

$$H = \frac{10}{2} + \frac{4 \times 2}{1 \times 2}$$

$$H = \frac{10}{2} + \frac{8}{2}$$

$$H = \frac{18}{2}$$

$$H = \frac{9 \times 2}{1 \times 2}$$

$$H = 9$$

3- /

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{63}{10} \times \frac{40}{21} \\ A &= \frac{\cancel{21} \times 3 \times \cancel{10} \times 4}{10 \times \cancel{21} \times 1} \\ A &= 12 \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{5}{6} \times \frac{3}{35} \\ B &= \frac{\cancel{3} \times \cancel{3} \times 1}{\cancel{3} \times 2 \times \cancel{3} \times 7} \\ B &= \frac{1}{14} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{12}{35} \times \frac{10}{9} \\ C &= \frac{\cancel{3} \times 4 \times \cancel{5} \times 2}{\cancel{3} \times 7 \times \cancel{5} \times 3} \\ C &= \frac{8}{21} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{2}{21} \times \frac{49}{12} \\ D &= \frac{\cancel{2} \times \cancel{7} \times 7}{\cancel{7} \times 3 \times \cancel{2} \times 6} \\ D &= \frac{7}{18} \end{aligned}$$

4- /

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{42}{25} \times \frac{35}{12} \\ A &= \frac{\cancel{6} \times 7 \times \cancel{5} \times 7}{\cancel{5} \times 5 \times \cancel{6} \times 2} \\ A &= \frac{49}{10} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{40}{27} \times \frac{27}{50} \\ B &= \frac{\cancel{10} \times 4 \times \cancel{27}}{\cancel{27} \times \cancel{10} \times 5} \\ B &= \frac{4}{5} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{21}{20} \times \frac{8}{9} \\ C &= \frac{\cancel{3} \times 7 \times \cancel{4} \times 2}{\cancel{4} \times 5 \times \cancel{3} \times 3} \\ C &= \frac{14}{15} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{1}{12} \times \frac{10}{9} \\ D &= \frac{\cancel{2} \times 5}{\cancel{2} \times 6 \times 9} \\ D &= \frac{5}{54} \end{aligned}$$

5- /

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{10}{49} \times \frac{49}{50} \\ A &= \frac{\cancel{10} \times \cancel{49} \times 1}{\cancel{49} \times \cancel{10} \times 5} \\ A &= \frac{1}{5} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{18}{25} \times \frac{25}{4} \\ B &= \frac{\cancel{2} \times 9 \times \cancel{25}}{\cancel{25} \times \cancel{2} \times 2} \\ B &= \frac{9}{2} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{35}{27} \times \frac{18}{25} \\ C &= \frac{\cancel{5} \times 7 \times \cancel{9} \times 2}{\cancel{9} \times 3 \times \cancel{5} \times 5} \\ C &= \frac{14}{15} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{27}{14} \times \frac{28}{15} \\ D &= \frac{\cancel{3} \times 9 \times \cancel{14} \times 2}{\cancel{14} \times \cancel{3} \times 5} \\ D &= \frac{18}{5} \end{aligned}$$

6- /

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{7}{80} \times \frac{64}{5} \\ A &= \frac{7 \times \cancel{16} \times 4}{\cancel{16} \times 5 \times 5} \\ A &= \frac{28}{25} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{35}{64} \times \frac{56}{25} \\ B &= \frac{\cancel{5} \times 7 \times \cancel{8} \times 7}{\cancel{8} \times 8 \times \cancel{5} \times 5} \\ B &= \frac{49}{40} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{20}{49} \times \frac{49}{10} \\ C &= \frac{\cancel{10} \times 2 \times \cancel{49}}{\cancel{49} \times \cancel{10} \times 1} \\ C &= 2 \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{3}{50} \times \frac{10}{27} \\ D &= \frac{\cancel{3} \times \cancel{10} \times 1}{\cancel{10} \times 5 \times \cancel{3} \times 9} \\ D &= \frac{1}{45} \end{aligned}$$

7- /

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{8}{63} \times \frac{35}{6} \\ A &= \frac{\cancel{2} \times 4 \times \cancel{7} \times 5}{7 \times \cancel{9} \times \cancel{2} \times 3} \\ A &= \frac{20}{27} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{1}{10} \times \frac{50}{3} \\ B &= \frac{\cancel{10} \times 5}{\cancel{10} \times 3} \\ B &= \frac{5}{3} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{7}{18} \times \frac{9}{8} \\ C &= \frac{7 \times \cancel{9}}{\cancel{9} \times 2 \times 8} \\ C &= \frac{7}{16} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{10}{63} \times \frac{27}{10} \\ D &= \frac{\cancel{10} \times \cancel{9} \times 3}{\cancel{9} \times 7 \times \cancel{10}} \\ D &= \frac{3}{7} \end{aligned}$$

8- /- /- /- /-

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{8}{63} \times \frac{9}{8} \\ A &= \frac{\cancel{8} \times \cancel{9} \times 1}{\cancel{9} \times 7 \times \cancel{8}} \\ A &= \frac{1}{7} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{28}{45} \times \frac{45}{8} \\ B &= \frac{\cancel{4} \times 7 \times \cancel{45}}{\cancel{45} \times \cancel{4} \times 2} \\ B &= \frac{7}{2} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{18}{35} \times \frac{7}{27} \\ C &= \frac{\cancel{9} \times 2 \times \cancel{7}}{\cancel{7} \times 5 \times \cancel{9} \times 3} \\ C &= \frac{2}{15} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{9}{50} \times \frac{80}{27} \\ D &= \frac{\cancel{9} \times \cancel{10} \times 8}{\cancel{10} \times 5 \times \cancel{9} \times 3} \\ D &= \frac{8}{15} \end{aligned}$$

9- /- /- /- /-

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{100}{27} \times \frac{63}{20} \\ A &= \frac{\cancel{20} \times 5 \times \cancel{9} \times 7}{\cancel{9} \times 3 \times \cancel{20}} \\ A &= \frac{35}{3} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{49}{40} \times \frac{8}{35} \\ B &= \frac{7 \times 7 \times \cancel{8}}{\cancel{8} \times 5 \times \cancel{7} \times 5} \\ B &= \frac{7}{25} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{3}{8} \times \frac{16}{27} \\ C &= \frac{\cancel{3} \times \cancel{8} \times 2}{\cancel{8} \times \cancel{3} \times 9} \\ C &= \frac{2}{9} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{20}{63} \times \frac{21}{40} \\ D &= \frac{\cancel{20} \times \cancel{21} \times 1}{\cancel{21} \times 3 \times \cancel{20} \times 2} \\ D &= \frac{1}{6} \end{aligned}$$

10- /- /- /- /-

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{2}{15} \times \frac{21}{10} \\ A &= \frac{\cancel{2} \times \cancel{3} \times 7}{\cancel{3} \times 5 \times \cancel{2} \times 5} \\ A &= \frac{7}{25} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{8}{21} \times \frac{7}{16} \\ B &= \frac{\cancel{8} \times \cancel{7} \times 1}{\cancel{7} \times 3 \times \cancel{8} \times 2} \\ B &= \frac{1}{6} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{3}{14} \times \frac{4}{21} \\ C &= \frac{\cancel{3} \times \cancel{2} \times 2}{\cancel{2} \times 7 \times \cancel{3} \times 7} \\ C &= \frac{2}{49} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{8}{15} \times \frac{15}{8} \\ D &= \frac{\cancel{8} \times \cancel{15} \times 1}{\cancel{15} \times \cancel{8} \times 1} \\ D &= 1 \end{aligned}$$

11- /- /- /- /-

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{27}{80} \times \frac{70}{27} \\ A &= \frac{\cancel{27} \times \cancel{10} \times 7}{\cancel{10} \times 8 \times \cancel{27}} \\ A &= \frac{7}{8} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{64}{35} \times \frac{21}{16} \\ B &= \frac{\cancel{16} \times 4 \times \cancel{7} \times 3}{\cancel{7} \times 5 \times \cancel{16}} \\ B &= \frac{12}{5} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{36}{49} \times \frac{7}{36} \\ C &= \frac{\cancel{36} \times \cancel{7} \times 1}{\cancel{7} \times 7 \times \cancel{36}} \\ C &= \frac{1}{7} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{32}{15} \times \frac{45}{32} \\ D &= \frac{\cancel{32} \times \cancel{15} \times 3}{\cancel{15} \times \cancel{32} \times 1} \\ D &= 3 \end{aligned}$$

32 - /

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{63}{8} \times \frac{16}{81} \\ A &= \frac{\cancel{9} \times 7 \times \cancel{8} \times 2}{8 \times \cancel{9} \times 9} \\ A &= \frac{14}{9} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{10}{9} \times \frac{27}{16} \\ B &= \frac{\cancel{2} \times 5 \times \cancel{9} \times 3}{9 \times \cancel{2} \times 8} \\ B &= \frac{15}{8} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{80}{49} \times \frac{21}{40} \\ C &= \frac{\cancel{40} \times 2 \times \cancel{7} \times 3}{7 \times 7 \times \cancel{40}} \\ C &= \frac{6}{7} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{20}{27} \times \frac{63}{50} \\ D &= \frac{\cancel{10} \times 2 \times \cancel{9} \times 7}{9 \times 3 \times \cancel{10} \times 5} \\ D &= \frac{14}{15} \end{aligned}$$

33 - /

احسب بتمعن مع إظهار الخطوات ثم اكتب النتيجة على أبسط شكل.

$$\begin{aligned} \text{►1. } A &= \frac{7}{24} \times \frac{42}{5} \\ A &= \frac{7 \times \cancel{6} \times 7}{\cancel{6} \times 4 \times 5} \\ A &= \frac{49}{20} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{45}{16} \times \frac{24}{35} \\ B &= \frac{\cancel{5} \times 9 \times \cancel{8} \times 3}{8 \times 2 \times \cancel{5} \times 7} \\ B &= \frac{27}{14} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{50}{21} \times \frac{63}{100} \\ C &= \frac{\cancel{50} \times \cancel{21} \times 3}{\cancel{21} \times \cancel{50} \times 2} \\ C &= \frac{3}{2} \end{aligned}$$

$$\begin{aligned} \text{►4. } D &= \frac{32}{63} \times \frac{35}{72} \\ D &= \frac{\cancel{8} \times 4 \times \cancel{7} \times 5}{7 \times 9 \times \cancel{8} \times 9} \\ D &= \frac{20}{81} \end{aligned}$$

3- / التمارين

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-5}{8} - \frac{-5}{8} \times \frac{32}{9}$$

$$A = \frac{-5}{8} - \frac{-5}{1 \times 8} \times \frac{4 \times 8}{9}$$

$$A = \frac{-5}{8} - \frac{-20}{9}$$

$$A = \frac{-5 \times 9}{8 \times 9} - \frac{-20 \times 8}{9 \times 8}$$

$$A = \frac{-45}{72} - \frac{-160}{72}$$

$$A = \frac{115}{72}$$

$$B = \frac{\frac{4}{3} - 10}{\frac{-5}{9} - 10}$$

$$B = \frac{\frac{4}{3} - \frac{10 \times 3}{1 \times 3}}{\frac{-5}{9} - \frac{10 \times 9}{1 \times 9}}$$

$$B = \frac{\frac{4}{3} - \frac{30}{3}}{\frac{-5}{9} - \frac{90}{9}}$$

$$B = \frac{-26}{3} \div \frac{-95}{9}$$

$$B = \frac{-26}{3} \times \frac{-9}{95}$$

$$B = \frac{-26}{-1 \times 3} \times \frac{3 \times 3}{95}$$

$$B = \frac{78}{95}$$

$$C = \frac{-3}{5} \times \left(\frac{-12}{5} + \frac{-11}{12} \right)$$

$$C = \frac{-3}{5} \times \left(\frac{-12 \times 12}{5 \times 12} + \frac{-11 \times 5}{12 \times 5} \right)$$

$$C = \frac{-3}{5} \times \left(\frac{-144}{60} + \frac{-55}{60} \right)$$

$$C = \frac{-3}{5} \times \frac{-199}{60}$$

$$C = \frac{-1 \times 3}{-5 \times 1} \times \frac{199 \times 1}{20 \times 3}$$

$$C = \frac{199}{100}$$

4- / التمارين

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-2}{5} + 3$$

$$A = \frac{-2}{5} + 10$$

$$A = \frac{-2}{5} + \frac{3 \times 5}{1 \times 5}$$

$$A = \frac{-2}{5} + \frac{10 \times 8}{1 \times 8}$$

$$A = \frac{-2}{5} + \frac{15}{5}$$

$$A = \frac{-2}{5} + \frac{80}{8}$$

$$A = \frac{13}{5} \div \frac{85}{8}$$

$$A = \frac{13}{5} \times \frac{8}{85}$$

$$A =$$

$$A = \frac{104}{425}$$

$$B = \frac{-1}{3} \times \left(\frac{-13}{3} - \frac{-3}{5} \right)$$

$$B = \frac{-1}{3} \times \left(\frac{-13 \times 5}{3 \times 5} - \frac{-3 \times 3}{5 \times 3} \right)$$

$$B = \frac{-1}{3} \times \left(\frac{-65}{15} - \frac{-9}{15} \right)$$

$$B = \frac{-1}{3} \times \frac{-56}{15}$$

$$B = \frac{-1}{-3 \times 1} \times \frac{56 \times 1}{15}$$

$$B = \frac{56}{45}$$

$$C = \frac{-7}{9} + \frac{-5}{27} \div \frac{-4}{81}$$

$$C = \frac{-7}{9} + \frac{-5}{27} \times \frac{-81}{4}$$

$$C = \frac{-7}{9} + \frac{-5}{-1 \times 27} \times \frac{3 \times 27}{4}$$

$$C = \frac{-7}{9} + \frac{15}{4}$$

$$C = \frac{-7 \times 4}{9 \times 4} + \frac{15 \times 9}{4 \times 9}$$

$$C = \frac{-28}{36} + \frac{135}{36}$$

$$C = \frac{107}{36}$$

5- /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{3}{5} - \frac{1}{10} \div \frac{14}{15}$$

$$A = \frac{3}{5} - \frac{1}{10} \times \frac{15}{14}$$

$$A = \frac{3}{5} - \frac{1}{2 \times 5} \times \frac{3 \times 5}{14}$$

$$A = \frac{3}{5} - \frac{3}{28}$$

$$A = \frac{3 \times 28}{5 \times 28} - \frac{3 \times 5}{28 \times 5}$$

$$A = \frac{84}{140} - \frac{15}{140}$$

$$A = \frac{69}{140}$$

$$B = \frac{-1}{2} \times \left(\frac{10}{13} + \frac{7}{12} \right)$$

$$B = \frac{-1}{2} \times \left(\frac{10 \times 12}{13 \times 12} + \frac{7 \times 13}{12 \times 13} \right)$$

$$B = \frac{-1}{2} \times \left(\frac{120}{156} + \frac{91}{156} \right)$$

$$B = \frac{-1}{2} \times \frac{211}{156}$$

$$B =$$

$$B = \frac{-211}{312}$$

$$C = \frac{\frac{-2}{5} + 10}{\frac{-2}{5} + 8}$$

$$C = \frac{\frac{-2}{5} + \frac{10 \times 5}{1 \times 5}}{\frac{-2}{5} + \frac{8 \times 5}{1 \times 5}}$$

$$C = \frac{\frac{-2}{5} + \frac{50}{5}}{\frac{-2}{5} + \frac{40}{5}}$$

$$C = \frac{48}{5} \div \frac{38}{5}$$

$$C = \frac{48}{5} \times \frac{5}{38}$$

$$C = \frac{24 \times 2}{1 \times 5} \times \frac{1 \times 5}{19 \times 2}$$

$$C = \frac{24}{19}$$

6- /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{9}{25} + \frac{8}{25} \times -5$$

$$A = \frac{9}{25} + \frac{8}{-5 \times 5} \times \frac{1 \times 5}{1}$$

$$A = \frac{9}{25} + \frac{-8}{5}$$

$$A = \frac{9}{25} + \frac{-8 \times 5}{5 \times 5}$$

$$A = \frac{9}{25} + \frac{-40}{25}$$

$$A = \frac{-31}{25}$$

$$B = \frac{4}{3} \times \left(\frac{-11}{10} + \frac{-12}{13} \right)$$

$$B = \frac{4}{3} \times \left(\frac{-11 \times 13}{10 \times 13} + \frac{-12 \times 10}{13 \times 10} \right)$$

$$B = \frac{4}{3} \times \left(\frac{-143}{130} + \frac{-120}{130} \right)$$

$$B = \frac{4}{3} \times \frac{-263}{130}$$

$$B = \frac{2 \times 2}{-3 \times 1} \times \frac{263 \times 1}{65 \times 2}$$

$$B = \frac{-526}{195}$$

$$C = \frac{\frac{-2}{5} + 9}{\frac{-3}{5} + 7}$$

$$C = \frac{\frac{-2}{5} + \frac{9 \times 5}{1 \times 5}}{\frac{-3}{5} + \frac{7 \times 5}{1 \times 5}}$$

$$C = \frac{\frac{-2}{5} + \frac{45}{5}}{\frac{-3}{5} + \frac{35}{5}}$$

$$C = \frac{43}{5} \div \frac{32}{5}$$

$$C = \frac{43}{5} \times \frac{5}{32}$$

$$C = \frac{43}{1 \times 5} \times \frac{1 \times 5}{32}$$

$$C = \frac{43}{32}$$

7- /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{3}{8} + 5}{\frac{1}{5} - 4}$$

$$A = \frac{\frac{3}{8} + \frac{5 \times 8}{1 \times 8}}{\frac{-1}{5} - \frac{4 \times 5}{1 \times 5}}$$

$$A = \frac{\frac{3}{8} + \frac{40}{8}}{\frac{-1}{5} - \frac{20}{5}}$$

$$A = \frac{43}{8} \div \frac{-21}{5}$$

$$A = \frac{43}{8} \times \frac{-5}{21}$$

$$A = \frac{43}{-8 \times 21} \times \frac{5 \times 1}{1}$$

$$A = \frac{-215}{168}$$

$$B = \frac{6}{5} \times \left(\frac{-13}{3} + \frac{1}{2} \right)$$

$$B = \frac{6}{5} \times \left(\frac{-13 \times 2}{3 \times 2} + \frac{1 \times 3}{2 \times 3} \right)$$

$$B = \frac{6}{5} \times \left(\frac{-26}{6} + \frac{3}{6} \right)$$

$$B = \frac{6}{5} \times \frac{-23}{6}$$

$$B = \frac{1 \times 6}{-5 \times 1} \times \frac{23 \times 1}{1 \times 6}$$

$$B = \frac{-23}{5}$$

$$C = \frac{-24}{7} - \frac{4}{21} \times \frac{-7}{10}$$

$$C = \frac{-24}{7} - \frac{2 \times 2}{-3 \times 7} \times \frac{1 \times 7}{5 \times 2}$$

$$C = \frac{-24}{7} - \frac{-2}{15}$$

$$C = \frac{-24 \times 15}{7 \times 15} - \frac{-2 \times 7}{15 \times 7}$$

$$C = \frac{-360}{105} - \frac{-14}{105}$$

$$C = \frac{-346}{105}$$

8- /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-3}{2} + \frac{-3}{8} \div \frac{-3}{2}$$

$$A = \frac{-3}{2} + \frac{-3}{8} \times \frac{-2}{3}$$

$$A = \frac{-3}{2} + \frac{-1 \times 3}{-4 \times 2} \times \frac{1 \times 2}{1 \times 3}$$

$$A = \frac{-3}{2} + \frac{1}{4}$$

$$A = \frac{-3 \times 2}{2 \times 2} + \frac{1}{4}$$

$$A = \frac{-6}{4} + \frac{1}{4}$$

$$A = \frac{-5}{4}$$

$$B = \frac{5}{8} \times \left(\frac{11}{4} + \frac{5}{13} \right)$$

$$B = \frac{5}{8} \times \left(\frac{11 \times 13}{4 \times 13} + \frac{5 \times 4}{13 \times 4} \right)$$

$$B = \frac{5}{8} \times \left(\frac{143}{52} + \frac{20}{52} \right)$$

$$B = \frac{5}{8} \times \frac{163}{52}$$

$$B =$$

$$B = \frac{815}{416}$$

$$C = \frac{\frac{-9}{7} + 8}{\frac{-9}{2} + 3}$$

$$C = \frac{\frac{-9}{7} + \frac{8 \times 7}{1 \times 7}}{\frac{-9}{2} + \frac{3 \times 2}{1 \times 2}}$$

$$C = \frac{\frac{-9}{7} + \frac{56}{7}}{\frac{-9}{2} + \frac{6}{2}}$$

$$C = \frac{47}{7} \div \frac{-3}{2}$$

$$C = \frac{47}{7} \times \frac{-2}{3}$$

$$C = \frac{47}{-7 \times 3} \times \frac{2 \times 1}{1}$$

$$C = \frac{-94}{21}$$

9- /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-1}{3} + 8}{\frac{3}{5} - 8}$$

$$A = \frac{\frac{-1}{3} + \frac{8 \times 3}{1 \times 3}}{\frac{3}{5} - \frac{8 \times 5}{1 \times 5}}$$

$$A = \frac{\frac{-1}{3} + \frac{24}{3}}{\frac{3}{5} - \frac{40}{5}}$$

$$A = \frac{23}{3} \div \frac{-37}{5}$$

$$A = \frac{23}{3} \times \frac{-5}{37}$$

$$A = \frac{23}{-3 \times 1} \times \frac{5 \times 1}{37}$$

$$A = \frac{-115}{111}$$

$$B = \frac{5}{7} \div \left(\frac{-7}{8} - \frac{2}{7} \right)$$

$$B = \frac{5}{7} \div \left(\frac{-7 \times 7}{8 \times 7} - \frac{2 \times 8}{7 \times 8} \right)$$

$$B = \frac{5}{7} \div \left(\frac{-49}{56} - \frac{16}{56} \right)$$

$$B = \frac{5}{7} \div \frac{-65}{56}$$

$$B = \frac{5}{7} \times \frac{-56}{65}$$

$$B = \frac{1 \times 5}{-1 \times 1} \times \frac{8 \times 1}{13 \times 1}$$

$$B = \frac{-8}{13}$$

$$C = \frac{-40}{9} + \frac{10}{81} \div \frac{-10}{9}$$

$$C = \frac{-40}{9} + \frac{10}{81} \times \frac{-9}{10}$$

$$C = \frac{-40}{9} + \frac{1 \times 10}{-9 \times 1} \times \frac{1 \times 1}{1 \times 10}$$

$$C = \frac{-40}{9} + \frac{-1}{9}$$

$$C =$$

$$C = \frac{-40}{9} + \frac{-1}{9}$$

$$C = \frac{-41}{9}$$

: 9- /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{8}{7} + 9}{\frac{-7}{4} - 5}$$

$$A = \frac{\frac{8}{7} + \frac{9 \times 7}{1 \times 7}}{\frac{-7}{4} - \frac{5 \times 4}{1 \times 4}}$$

$$A = \frac{\frac{8}{7} + \frac{63}{7}}{\frac{-7}{4} - \frac{20}{4}}$$

$$A = \frac{71}{7} \div \frac{-27}{4}$$

$$A = \frac{71}{7} \times \frac{-4}{27}$$

$$A = \frac{71}{-7 \times 1} \times \frac{4 \times 1}{27}$$

$$A = \frac{-284}{189}$$

$$B = \frac{2}{3} - \frac{-8}{21} \times \frac{-7}{6}$$

$$B = \frac{2}{3} - \frac{-4 \times 2}{-3 \times 1} \times \frac{1 \times 1}{3 \times 1}$$

$$B = \frac{2}{3} - \frac{4}{9}$$

$$B = \frac{2 \times 3}{3 \times 3} - \frac{4}{9}$$

$$B = \frac{6}{9} - \frac{4}{9}$$

$$B = \frac{2}{9}$$

$$C = \frac{-5}{3} \times \left(\frac{3}{2} + \frac{4}{3} \right)$$

$$C = \frac{-5}{3} \times \left(\frac{3 \times 3}{2 \times 3} + \frac{4 \times 2}{3 \times 2} \right)$$

$$C = \frac{-5}{3} \times \left(\frac{9}{6} + \frac{8}{6} \right)$$

$$C = \frac{-5}{3} \times \frac{17}{6}$$

$$C =$$

$$C = \frac{-85}{18}$$

- / التمرين 17 :

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-4}{5} \div \left(\frac{-10}{3} - \frac{9}{10} \right)$$

$$A = \frac{-4}{5} \div \left(\frac{-10 \times 10}{3 \times 10} - \frac{9 \times 3}{10 \times 3} \right)$$

$$A = \frac{-4}{5} \div \left(\frac{-100}{30} - \frac{27}{30} \right)$$

$$A = \frac{-4}{5} \div \frac{-127}{30}$$

$$A = \frac{-4}{5} \times \frac{-30}{127}$$

$$A = \frac{-4}{-1 \times 5} \times \frac{6 \times 5}{127}$$

$$A = \frac{24}{127}$$

$$B = \frac{-110}{13} + \frac{-22}{13} \div \frac{77}{130}$$

$$B = \frac{-110}{13} + \frac{-22}{13} \times \frac{130}{77}$$

$$B = \frac{-110}{13} + \frac{-2 \times 10}{1 \times 13} \times \frac{10 \times 13}{7 \times 11}$$

$$B = \frac{-110}{13} + \frac{-20}{7}$$

$$B = \frac{-110 \times 7}{13 \times 7} + \frac{-20 \times 13}{7 \times 13}$$

$$B = \frac{-770}{91} + \frac{-260}{91}$$

$$B = \frac{-1030}{91}$$

$$C = \frac{\frac{-3}{8} - 2}{\frac{-1}{4} - 3}$$

$$C = \frac{\frac{-3}{8} - \frac{2 \times 8}{1 \times 8}}{\frac{-1}{4} - \frac{3 \times 4}{1 \times 4}}$$

$$C = \frac{\frac{-3}{8} - \frac{16}{8}}{\frac{-1}{4} - \frac{12}{4}}$$

$$C = \frac{\frac{-3}{8} - \frac{16}{8}}{\frac{-1}{4} - \frac{12}{4}}$$

$$C = \frac{\frac{-3}{8} - \frac{16}{8}}{\frac{-1}{4} - \frac{12}{4}}$$

$$C = \frac{-19}{8} \div \frac{-13}{4}$$

$$C = \frac{-19}{8} \times \frac{-4}{13}$$

$$C = \frac{-19}{-2 \times 4} \times \frac{1 \times 4}{13}$$

$$C = \frac{-19}{-2 \times 4} \times \frac{1 \times 4}{13}$$

$$C = \frac{19}{26}$$

- / التمرين 32 :

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-5}{8} - 5}{\frac{-2}{3} - 5}$$

$$A = \frac{\frac{-5}{8} - 5}{\frac{-2}{3} - 5}$$

$$A = \frac{\frac{-5}{8} - \frac{5 \times 8}{1 \times 8}}{\frac{-2}{3} - \frac{5 \times 3}{1 \times 3}}$$

$$A = \frac{\frac{-5}{8} - \frac{40}{8}}{\frac{-2}{3} - \frac{15}{3}}$$

$$A = \frac{\frac{-5}{8} - \frac{40}{8}}{\frac{-2}{3} - \frac{15}{3}}$$

$$A = \frac{\frac{-5}{8} - \frac{40}{8}}{\frac{-2}{3} - \frac{15}{3}}$$

$$A = \frac{-45}{8} \div \frac{-17}{3}$$

$$A = \frac{-45}{8} \times \frac{-3}{17}$$

$$A = \frac{-45}{-8 \times 1} \times \frac{3 \times 1}{17}$$

$$A = \frac{135}{136}$$

$$B = \frac{130}{7} - \frac{13}{7} \times \frac{49}{65}$$

$$B = \frac{130}{7} - \frac{1 \times 13}{1 \times 7} \times \frac{7 \times 7}{5 \times 13}$$

$$B = \frac{130}{7} - \frac{7}{5}$$

$$B = \frac{130 \times 5}{7 \times 5} - \frac{7 \times 7}{5 \times 7}$$

$$B = \frac{650}{35} - \frac{49}{35}$$

$$B = \frac{601}{35}$$

$$C = \frac{-3}{4} \times \left(\frac{-5}{2} + \frac{-8}{11} \right)$$

$$C = \frac{-3}{4} \times \left(\frac{-5 \times 11}{2 \times 11} + \frac{-8 \times 2}{11 \times 2} \right)$$

$$C = \frac{-3}{4} \times \left(\frac{-55}{22} + \frac{-16}{22} \right)$$

$$C = \frac{-3}{4} \times \frac{-71}{22}$$

$$C = \frac{-3}{4} \times \frac{-71}{22}$$

$$C = \frac{-3}{-4 \times 1} \times \frac{71 \times 1}{22}$$

$$C = \frac{213}{88}$$

33 - / - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-1}{3} \times \left(\frac{13}{5} - \frac{-13}{2} \right)$$

$$A = \frac{-1}{3} \times \left(\frac{13 \times 2}{5 \times 2} - \frac{-13 \times 5}{2 \times 5} \right)$$

$$A = \frac{-1}{3} \times \left(\frac{26}{10} - \frac{-65}{10} \right)$$

$$A = \frac{-1}{3} \times \frac{91}{10}$$

$$A =$$

$$A = \frac{-91}{30}$$

$$B = \frac{108}{11} - \frac{20}{11} \div \frac{-48}{55}$$

$$B = \frac{108}{11} - \frac{20}{11} \times \frac{-55}{48}$$

$$B = \frac{108}{11} - \frac{5 \times 4}{-1 \times 11} \times \frac{5 \times 11}{12 \times 4}$$

$$B = \frac{108}{11} - \frac{-25}{12}$$

$$B = \frac{108 \times 12}{11 \times 12} - \frac{-25 \times 11}{12 \times 11}$$

$$B = \frac{1296}{132} - \frac{-275}{132}$$

$$B = \frac{1571}{132}$$

$$C = \frac{\frac{9}{2} + 10}{\frac{-10}{9} + 3}$$

$$C = \frac{\frac{9}{2} + \frac{10 \times 2}{1 \times 2}}{\frac{-10}{9} + \frac{3 \times 9}{1 \times 9}}$$

$$C = \frac{\frac{9}{2} + \frac{20}{2}}{\frac{-10}{9} + \frac{27}{9}}$$

$$C = \frac{29}{2} \div \frac{17}{9}$$

$$C = \frac{29}{2} \times \frac{9}{17}$$

$$C =$$

$$C = \frac{261}{34}$$

34 - / - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-4}{5} - 8}{\frac{8}{8} - 8}$$

$$A = \frac{\frac{-4}{5} - \frac{8 \times 5}{1 \times 5}}{\frac{8}{8} - \frac{8 \times 8}{1 \times 8}}$$

$$A = \frac{\frac{-4}{5} - \frac{40}{5}}{\frac{8}{8} - \frac{64}{8}}$$

$$A = \frac{-44}{5} \div \frac{-57}{8}$$

$$A = \frac{-44}{5} \times \frac{-8}{57}$$

$$A = \frac{-44}{-5 \times 1} \times \frac{8 \times 1}{57}$$

$$A = \frac{352}{285}$$

$$B = \frac{4}{5} + \frac{-12}{25} \times \frac{15}{14}$$

$$B = \frac{4}{5} + \frac{-6 \times 2}{5 \times 5} \times \frac{3 \times 5}{7 \times 2}$$

$$B = \frac{4}{5} + \frac{-18}{35}$$

$$B = \frac{4 \times 7}{5 \times 7} + \frac{-18}{35}$$

$$B = \frac{28}{35} + \frac{-18}{35}$$

$$B = \frac{10}{35}$$

$$B = \frac{2}{7}$$

$$C = \frac{-8}{5} \div \left(\frac{3}{13} - \frac{10}{7} \right)$$

$$C = \frac{-8}{5} \div \left(\frac{3 \times 7}{13 \times 7} - \frac{10 \times 13}{7 \times 13} \right)$$

$$C = \frac{-8}{5} \div \left(\frac{21}{91} - \frac{130}{91} \right)$$

$$C = \frac{-8}{5} \div \frac{-109}{91}$$

$$C = \frac{-8}{5} \times \frac{-91}{109}$$

$$C = \frac{-8}{-5 \times 1} \times \frac{91 \times 1}{109}$$

$$C = \frac{728}{545}$$

35 - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{9}{5} \times \left(\frac{2}{9} - \frac{7}{4} \right)$$

$$A = \frac{9}{5} \times \left(\frac{2 \times 4}{9 \times 4} - \frac{7 \times 9}{4 \times 9} \right)$$

$$A = \frac{9}{5} \times \left(\frac{8}{36} - \frac{63}{36} \right)$$

$$A = \frac{9}{5} \times \frac{-55}{36}$$

$$A = \frac{1 \times 9}{-1 \times 5} \times \frac{11 \times 5}{4 \times 9}$$

$$A = \frac{-11}{4}$$

$$B = \frac{\frac{5}{4} - 8}{\frac{-10}{9} + 4}$$

$$B = \frac{\frac{5}{4} - \frac{8 \times 4}{1 \times 4}}{\frac{-10}{9} + \frac{4 \times 9}{1 \times 9}}$$

$$B = \frac{\frac{5}{4} - \frac{32}{4}}{\frac{-10}{9} + \frac{36}{9}}$$

$$B = \frac{-27}{4} \div \frac{26}{9}$$

$$B = \frac{-27}{4} \times \frac{9}{26}$$

$$B =$$

$$B = \frac{-243}{104}$$

$$C = \frac{54}{13} + \frac{27}{26} \times \frac{13}{3}$$

$$C = \frac{54}{13} + \frac{9 \times 3}{2 \times 13} \times \frac{1 \times 13}{1 \times 3}$$

$$C = \frac{54}{13} + \frac{9}{2}$$

$$C = \frac{54 \times 2}{13 \times 2} + \frac{9 \times 13}{2 \times 13}$$

$$C = \frac{108}{26} + \frac{117}{26}$$

$$C = \frac{225}{26}$$

36 - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-45}{11} - \frac{-10}{33} \times \frac{44}{35}$$

$$A = \frac{-45}{11} - \frac{-2 \times 3}{3 \times 11} \times \frac{4 \times 11}{7 \times 3}$$

$$A = \frac{-45}{11} - \frac{-8}{21}$$

$$A = \frac{-45 \times 21}{11 \times 21} - \frac{-8 \times 11}{21 \times 11}$$

$$A = \frac{-945}{231} - \frac{-88}{231}$$

$$A = \frac{-857}{231}$$

$$B = \frac{5}{4} \div \left(\frac{1}{9} - \frac{1}{8} \right)$$

$$B = \frac{5}{4} \div \left(\frac{1 \times 8}{9 \times 8} - \frac{1 \times 9}{8 \times 9} \right)$$

$$B = \frac{5}{4} \div \left(\frac{8}{72} - \frac{9}{72} \right)$$

$$B = \frac{5}{4} \div \frac{-1}{72}$$

$$B = \frac{5}{4} \times -72$$

$$B = \frac{5}{-1 \times 4} \times \frac{18 \times 4}{1}$$

$$B = -90$$

$$C = \frac{\frac{3}{5} - 9}{\frac{5}{5} - 8}$$

$$C = \frac{\frac{3}{5} - \frac{9 \times 5}{1 \times 5}}{\frac{5}{5} - \frac{1 \times 5}{8 \times 5}}$$

$$C = \frac{\frac{3}{5} - \frac{45}{5}}{\frac{5}{5} - \frac{5}{40}}$$

$$C = \frac{-42}{5} \div \frac{-31}{5}$$

$$C = \frac{-42}{5} \times \frac{-5}{31}$$

$$C = \frac{-42}{-1 \times 5} \times \frac{1 \times 5}{31}$$

$$C = \frac{42}{31}$$

37 - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-7}{4} \div \left(\frac{-5}{13} + \frac{13}{9} \right)$$

$$A = \frac{-7}{4} \div \left(\frac{5 \times 9}{13 \times 9} + \frac{13 \times 13}{9 \times 13} \right)$$

$$A = \frac{-7}{4} \div \left(\frac{-45}{117} + \frac{169}{117} \right)$$

$$A = \frac{-7}{4} \div \frac{124}{117}$$

$$A = \frac{-7}{4} \times \frac{117}{124}$$

$$A =$$

$$A = \frac{-819}{496}$$

$$B = \frac{\frac{5}{6} + 7}{\frac{7}{2} + 1}$$

$$B = \frac{\frac{5}{6} + \frac{7 \times 6}{1 \times 6}}{\frac{7}{2} + \frac{1 \times 2}{1 \times 2}}$$

$$B = \frac{\frac{5}{6} + \frac{42}{6}}{\frac{7}{2} + \frac{2}{2}}$$

$$B = \frac{47}{6} \div \frac{9}{2}$$

$$B = \frac{47}{6} \times \frac{2}{9}$$

$$B = \frac{47}{3 \times 3} \times \frac{1 \times 2}{9}$$

$$B = \frac{47}{27}$$

$$C = \frac{9}{11} + \frac{15}{22} \div \frac{24}{11}$$

$$C = \frac{9}{11} + \frac{15}{22} \times \frac{11}{24}$$

$$C = \frac{9}{11} + \frac{5 \times 3}{2 \times 4} \times \frac{1 \times 11}{8 \times 3}$$

$$C = \frac{9}{11} + \frac{5}{16}$$

$$C = \frac{9 \times 16}{11 \times 16} + \frac{5 \times 11}{16 \times 11}$$

$$C = \frac{144}{176} + \frac{55}{176}$$

$$C = \frac{199}{176}$$

38 - / / / / /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-5}{6} \div \left(\frac{-9}{5} + \frac{7}{13} \right)$$

$$A = \frac{-5}{6} \div \left(\frac{-9 \times 13}{5 \times 13} + \frac{7 \times 5}{13 \times 5} \right)$$

$$A = \frac{-5}{6} \div \left(\frac{-117}{65} + \frac{35}{65} \right)$$

$$A = \frac{-5}{6} \div \frac{-82}{65}$$

$$A = \frac{-5}{6} \times \frac{-65}{82}$$

$$A = \frac{-5}{-6 \times 1} \times \frac{65 \times 1}{82}$$

$$A = \frac{325}{492}$$

$$B = \frac{\frac{-9}{4} - 1}{\frac{4}{3} + 6}$$

$$B = \frac{\frac{-9}{4} - \frac{1 \times 4}{1 \times 4}}{\frac{4}{3} + \frac{6 \times 3}{1 \times 3}}$$

$$B = \frac{\frac{-9}{4} - \frac{4}{4}}{\frac{4}{3} + \frac{18}{3}}$$

$$B = \frac{-13}{4} \div \frac{22}{3}$$

$$B = \frac{-13}{4} \times \frac{3}{22}$$

$$B =$$

$$B = \frac{-39}{88}$$

$$C = \frac{-6}{11} + \frac{-4}{11} \div \frac{-15}{11}$$

$$C = \frac{-6}{11} + \frac{-4}{11} \times \frac{-11}{15}$$

$$C = \frac{-6}{11} + \frac{-4}{-1 \times 11} \times \frac{1 \times 11}{15}$$

$$C = \frac{-6}{11} + \frac{4}{15}$$

$$C = \frac{-6 \times 15}{11 \times 15} + \frac{4 \times 11}{15 \times 11}$$

$$C = \frac{-90}{165} + \frac{44}{165}$$

$$C = \frac{-46}{165}$$

39 - / / / / /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = -3 + \frac{3}{4} \times \frac{-7}{3}$$

$$A = -3 + \frac{1 \times 3}{4 \times 3} \times \frac{7 \times 1}{1 \times 3}$$

$$A = -3 + \frac{-7}{4}$$

$$A = \frac{-3 \times 4}{1 \times 4} + \frac{-7}{4}$$

$$A = \frac{-12}{4} + \frac{-7}{4}$$

$$A = \frac{-19}{4}$$

$$B = \frac{10}{9} \div \left(\frac{-3}{2} - \frac{11}{13} \right)$$

$$B = \frac{10}{9} \div \left(\frac{-3 \times 13}{2 \times 13} - \frac{11 \times 2}{13 \times 2} \right)$$

$$B = \frac{10}{9} \div \left(\frac{-39}{26} - \frac{22}{26} \right)$$

$$B = \frac{10}{9} \div \frac{-61}{26}$$

$$B = \frac{10}{9} \times \frac{-26}{61}$$

$$B = \frac{10}{-9 \times 1} \times \frac{26 \times 1}{61}$$

$$B = \frac{-260}{549}$$

$$C = \frac{\frac{7}{3} + 4}{\frac{-3}{4} - 5}$$

$$C = \frac{\frac{7}{3} + \frac{4 \times 3}{1 \times 3}}{\frac{-3}{4} - \frac{5 \times 4}{1 \times 4}}$$

$$C = \frac{\frac{7}{3} + \frac{12}{3}}{\frac{-3}{4} - \frac{20}{4}}$$

$$C = \frac{19}{3} \div \frac{-23}{4}$$

$$C = \frac{19}{3} \times \frac{-4}{23}$$

$$C = \frac{19}{-3 \times 1} \times \frac{4 \times 1}{23}$$

$$C = \frac{-76}{69}$$

3: - / التمارين

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{9}{7} + 8}{\frac{9}{2} + 3}$$

$$A = \frac{\frac{9}{7} + \frac{8 \times 7}{1 \times 7}}{\frac{9}{2} + \frac{3 \times 2}{1 \times 2}}$$

$$A = \frac{\frac{9}{7} + \frac{56}{7}}{\frac{9}{2} + \frac{6}{2}}$$

$$A = \frac{65}{7} \div \frac{15}{2}$$

$$A = \frac{65}{7} \times \frac{2}{15}$$

$$A = \frac{13 \times 2}{7 \times 3} \times \frac{2}{3 \times 5}$$

$$A = \frac{26}{21}$$

$$B = \frac{-5}{24} + \frac{-35}{96} \times \frac{-6}{5}$$

$$B = \frac{-5}{24} + \frac{-7 \times 5}{-16 \times 6} \times \frac{1 \times 6}{1 \times 5}$$

$$B = \frac{-5}{24} + \frac{7}{16}$$

$$B = \frac{-5 \times 2}{24 \times 2} + \frac{7 \times 3}{16 \times 3}$$

$$B = \frac{-10}{48} + \frac{21}{48}$$

$$B = \frac{11}{48}$$

$$C = \frac{-1}{9} \div \left(\frac{3}{7} + \frac{6}{11} \right)$$

$$C = \frac{-1}{9} \div \left(\frac{3 \times 11}{7 \times 11} + \frac{6 \times 7}{11 \times 7} \right)$$

$$C = \frac{-1}{9} \div \left(\frac{33}{77} + \frac{42}{77} \right)$$

$$C = \frac{-1}{9} \div \frac{75}{77}$$

$$C = \frac{-1}{9} \times \frac{77}{75}$$

$$C =$$

$$C = \frac{-77}{675}$$

3: - / التمارين

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-7}{5} + 9}{\frac{-4}{9} - 10}$$

$$A = \frac{\frac{-7}{5} + \frac{9 \times 5}{1 \times 5}}{\frac{-4}{9} - \frac{10 \times 9}{1 \times 9}}$$

$$A = \frac{\frac{-7}{5} + \frac{45}{5}}{\frac{-4}{9} - \frac{90}{9}}$$

$$A = \frac{38}{5} \div \frac{-94}{9}$$

$$A = \frac{38}{5} \times \frac{-9}{94}$$

$$A = \frac{19 \times 2}{-5 \times 1} \times \frac{9 \times 1}{47 \times 2}$$

$$A = \frac{-171}{235}$$

$$B = \frac{2}{9} \times \left(\frac{-13}{7} + \frac{-3}{13} \right)$$

$$B = \frac{2}{9} \times \left(\frac{-13 \times 13}{7 \times 13} + \frac{-3 \times 7}{13 \times 7} \right)$$

$$B = \frac{2}{9} \times \left(\frac{-169}{91} + \frac{-21}{91} \right)$$

$$B = \frac{2}{9} \times \frac{-190}{91}$$

$$B = \frac{2}{-9 \times 1} \times \frac{190 \times 1}{91}$$

$$B = \frac{-380}{819}$$

$$C = \frac{28}{9} - \frac{7}{9} \div \frac{-7}{18}$$

$$C = \frac{28}{9} - \frac{7}{9} \times \frac{-18}{7}$$

$$C = \frac{28}{9} - \frac{1 \times 7}{-1 \times 9} \times \frac{2 \times 9}{1 \times 7}$$

$$C = \frac{28}{9} - -2$$

$$C = \frac{28}{9} - \frac{-2 \times 9}{1 \times 9}$$

$$C = \frac{28}{9} - \frac{-18}{9}$$

$$C = \frac{46}{9}$$

42 - تمرين

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{8}{3} \times \left(\frac{7}{6} + \frac{-11}{5} \right)$$

$$A = \frac{8}{3} \times \left(\frac{7 \times 5}{6 \times 5} + \frac{-11 \times 6}{5 \times 6} \right)$$

$$A = \frac{8}{3} \times \left(\frac{35}{30} + \frac{-66}{30} \right)$$

$$A = \frac{8}{3} \times \frac{-31}{30}$$

$$A = \frac{4 \times 2}{-3 \times 1} \times \frac{31 \times 1}{15 \times 2}$$

$$A = \frac{-124}{45}$$

$$B = \frac{8}{7} - \frac{-1}{35} \div \frac{-18}{49}$$

$$B = \frac{8}{7} - \frac{-1}{35} \times \frac{-49}{18}$$

$$B = \frac{8}{7} - \frac{-1}{-5 \times 7} \times \frac{7 \times 7}{18}$$

$$B = \frac{8}{7} - \frac{7}{90}$$

$$B = \frac{8 \times 90}{7 \times 90} - \frac{7 \times 7}{90 \times 7}$$

$$B = \frac{720}{630} - \frac{49}{630}$$

$$B = \frac{671}{630}$$

$$C = \frac{\frac{2}{7} - 6}{\frac{2}{9} + 1}$$

$$C = \frac{\frac{2}{7} - \frac{6 \times 7}{1 \times 7}}{\frac{2}{9} + \frac{1 \times 9}{1 \times 9}}$$

$$C = \frac{\frac{2}{7} - \frac{42}{7}}{\frac{2}{9} + \frac{9}{9}}$$

$$C = \frac{-40}{7} \div \frac{11}{9}$$

$$C = \frac{-40}{7} \times \frac{9}{11}$$

$$C = \frac{-360}{77}$$

43 - تمرين

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-4}{3} + 3}{\frac{-7}{5} - 7}$$

$$A = \frac{\frac{-4}{3} + \frac{3 \times 3}{1 \times 3}}{\frac{-7}{5} - \frac{7 \times 5}{1 \times 5}}$$

$$A = \frac{\frac{-4}{3} + \frac{9}{3}}{\frac{-7}{5} - \frac{35}{5}}$$

$$A = \frac{5}{3} \div \frac{-42}{5}$$

$$A = \frac{5}{3} \times \frac{-5}{42}$$

$$A = \frac{5}{-3 \times 1} \times \frac{5 \times 1}{42}$$

$$A = \frac{-25}{126}$$

$$B = \frac{-36}{5} + \frac{-96}{25} \times \frac{-5}{108}$$

$$B = \frac{-36}{5} + \frac{-8 \times 12}{-5 \times 5} \times \frac{1 \times 5}{9 \times 12}$$

$$B = \frac{-36}{5} + \frac{8}{45}$$

$$B = \frac{-36 \times 9}{5 \times 9} + \frac{8}{45}$$

$$B = \frac{-324}{45} + \frac{8}{45}$$

$$B = \frac{-316}{45}$$

$$C = \frac{3}{4} \times \left(\frac{12}{7} - \frac{-11}{12} \right)$$

$$C = \frac{3}{4} \times \left(\frac{12 \times 12}{7 \times 12} - \frac{-11 \times 7}{12 \times 7} \right)$$

$$C = \frac{3}{4} \times \left(\frac{144}{84} - \frac{-77}{84} \right)$$

$$C = \frac{3}{4} \times \frac{221}{84}$$

$$C = \frac{1 \times 3}{4} \times \frac{221}{28 \times 3}$$

$$C = \frac{221}{112}$$

44 - تمرين 44

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-1}{2} - 4}{\frac{-10}{7} - 5}$$

$$A = \frac{\frac{-1}{2} - \frac{4 \times 2}{1 \times 2}}{\frac{-10}{7} - \frac{5 \times 7}{1 \times 7}}$$

$$A = \frac{\frac{-1}{2} - \frac{8}{2}}{\frac{-10}{7} - \frac{35}{7}}$$

$$A = \frac{-9}{2} \div \frac{-45}{7}$$

$$A = \frac{-9}{2} \times \frac{-7}{45}$$

$$A = \frac{-1 \times 9}{-2 \times 1} \times \frac{7 \times 1}{5 \times 9}$$

$$A = \frac{7}{10}$$

$$B = \frac{-11}{5} + \frac{11}{35} \div \frac{-44}{35}$$

$$B = \frac{-11}{5} + \frac{11}{35} \times \frac{-35}{44}$$

$$B = \frac{-11}{5} + \frac{1 \times 11}{-1 \times 35} \times \frac{1 \times 35}{4 \times 11}$$

$$B = \frac{-11}{5} + \frac{-1}{4}$$

$$B = \frac{-11 \times 4}{5 \times 4} + \frac{-1 \times 5}{4 \times 5}$$

$$B = \frac{-44}{20} + \frac{-5}{20}$$

$$B = \frac{-49}{20}$$

$$C = \frac{5}{3} \div \left(\frac{-13}{5} - \frac{-11}{12} \right)$$

$$C = \frac{5}{3} \div \left(\frac{-13 \times 12}{5 \times 12} - \frac{-11 \times 5}{12 \times 5} \right)$$

$$C = \frac{5}{3} \div \left(\frac{-156}{60} - \frac{-55}{60} \right)$$

$$C = \frac{5}{3} \div \frac{-101}{60}$$

$$C = \frac{5}{3} \times \frac{-60}{101}$$

$$C = \frac{5}{-1 \times 3} \times \frac{20 \times 3}{101}$$

$$C = \frac{-100}{101}$$

45 - تمرين 45

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = 10 - \frac{3}{2} \times \frac{-8}{5}$$

$$A = 10 - \frac{3}{-1 \times 2} \times \frac{4 \times 2}{5}$$

$$A = 10 - \frac{-12}{5}$$

$$A = \frac{10 \times 5}{1 \times 5} - \frac{-12}{5}$$

$$A = \frac{50}{5} - \frac{-12}{5}$$

$$A = \frac{62}{5}$$

$$B = \frac{-2}{3} \times \left(\frac{-5}{7} - \frac{-13}{9} \right)$$

$$B = \frac{-2}{3} \times \left(\frac{-5 \times 9}{7 \times 9} - \frac{-13 \times 7}{9 \times 7} \right)$$

$$B = \frac{-2}{3} \times \left(\frac{-45}{63} - \frac{-91}{63} \right)$$

$$B = \frac{-2}{3} \times \frac{46}{63}$$

$$B =$$

$$B = \frac{-92}{189}$$

$$C = \frac{\frac{5}{7} - 6}{\frac{7}{7} + 6}$$

$$C = \frac{\frac{5}{7} - \frac{6 \times 7}{1 \times 7}}{\frac{7}{7} + \frac{6 \times 7}{1 \times 7}}$$

$$C = \frac{\frac{5}{7} - \frac{42}{7}}{\frac{7}{7} + \frac{42}{7}}$$

$$C = \frac{-37}{7} \div \frac{51}{7}$$

$$C = \frac{-37}{7} \times \frac{7}{51}$$

$$C = \frac{-37}{1 \times 7} \times \frac{1 \times 7}{51}$$

$$C = \frac{-37}{51}$$

46 - / - / - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-3}{4} + 1}{\frac{-4}{3} - 2}$$

$$A = \frac{\frac{-3}{4} + \frac{1 \times 4}{1 \times 4}}{\frac{-4}{3} - \frac{2 \times 3}{1 \times 3}}$$

$$A = \frac{\frac{-3}{4} + \frac{4}{4}}{\frac{-4}{3} - \frac{6}{3}}$$

$$A = \frac{1}{4} \div \frac{-10}{3}$$

$$A = \frac{1}{4} \times \frac{-3}{10}$$

$$A = \frac{1}{-4 \times 1} \times \frac{3 \times 1}{10}$$

$$A = \frac{-3}{40}$$

$$B = \frac{-24}{5} - \frac{1}{10} \times \frac{-5}{6}$$

$$B = \frac{-24}{5} - \frac{1}{-2 \times 5} \times \frac{1 \times 5}{6}$$

$$B = \frac{-24}{5} - \frac{-1}{12}$$

$$B = \frac{-24 \times 12}{5 \times 12} - \frac{-1 \times 5}{12 \times 5}$$

$$B = \frac{-288}{60} - \frac{-5}{60}$$

$$B = \frac{-283}{60}$$

$$C = \frac{3}{2} \times \left(\frac{-6}{11} + \frac{9}{7} \right)$$

$$C = \frac{3}{2} \times \left(\frac{-6 \times 7}{11 \times 7} + \frac{9 \times 11}{7 \times 11} \right)$$

$$C = \frac{3}{2} \times \left(\frac{-42}{77} + \frac{99}{77} \right)$$

$$C = \frac{3}{2} \times \frac{57}{77}$$

$$C =$$

$$C = \frac{171}{154}$$

47 - / - / - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-130}{3} + \frac{13}{15} \div \frac{13}{14}$$

$$A = \frac{-130}{3} + \frac{13}{15} \times \frac{-14}{13}$$

$$A = \frac{-130}{3} + \frac{1 \times \cancel{13}}{-15 \times \cancel{1}} \times \frac{14 \times \cancel{1}}{1 \times \cancel{13}}$$

$$A = \frac{-130}{3} + \frac{-14}{15}$$

$$A = \frac{-130 \times 5}{3 \times 5} + \frac{-14}{15}$$

$$A = \frac{-650}{15} + \frac{-14}{15}$$

$$A = \frac{-664}{15}$$

$$B = \frac{\frac{-4}{5} + 8}{\frac{-4}{3} + 5}$$

$$B = \frac{\frac{-4}{5} + \frac{8 \times 5}{1 \times 5}}{\frac{-4}{3} + \frac{5 \times 3}{1 \times 3}}$$

$$B = \frac{\frac{-4}{5} + \frac{40}{5}}{\frac{-4}{3} + \frac{15}{3}}$$

$$B = \frac{\frac{-4}{5} + \frac{40}{5}}{\frac{-4}{3} + \frac{15}{3}}$$

$$B = \frac{\frac{-4}{5} + \frac{40}{5}}{\frac{-4}{3} + \frac{15}{3}}$$

$$B = \frac{36}{5} \div \frac{11}{3}$$

$$B = \frac{36}{5} \times \frac{3}{11}$$

$$B = \frac{108}{55}$$

$$B = \frac{108}{55}$$

$$C = \frac{3}{10} \times \left(\frac{5}{4} - \frac{-1}{3} \right)$$

$$C = \frac{3}{10} \times \left(\frac{5 \times 3}{4 \times 3} - \frac{-1 \times 4}{3 \times 4} \right)$$

$$C = \frac{3}{10} \times \left(\frac{15}{12} - \frac{-4}{12} \right)$$

$$C = \frac{3}{10} \times \frac{19}{12}$$

$$C = \frac{1 \times \cancel{3}}{10} \times \frac{19}{4 \times \cancel{3}}$$

$$C = \frac{19}{40}$$

48 - / - / - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = 45 + 5 \times \frac{-16}{45}$$

$$A = 45 + \frac{1 \times \cancel{5}}{-1 \times \cancel{1}} \times \frac{16 \times \cancel{1}}{9 \times \cancel{5}}$$

$$A = 45 + \frac{-16}{9}$$

$$A = \frac{45 \times 9}{1 \times 9} + \frac{-16}{9}$$

$$A = \frac{405}{9} + \frac{-16}{9}$$

$$A = \frac{389}{9}$$

$$B = \frac{\frac{3}{4} + 5}{\frac{8}{9} - 3}$$

$$B = \frac{\frac{3}{4} + \frac{5 \times 4}{1 \times 4}}{\frac{8}{9} - \frac{3 \times 8}{1 \times 8}}$$

$$B = \frac{\frac{3}{4} + \frac{20}{4}}{\frac{8}{9} - \frac{24}{9}}$$

$$B = \frac{\frac{3}{4} + \frac{20}{4}}{\frac{8}{9} - \frac{24}{9}}$$

$$B = \frac{\frac{3}{4} + \frac{20}{4}}{\frac{8}{9} - \frac{24}{9}}$$

$$B = \frac{23}{4} \div \frac{-15}{8}$$

$$B = \frac{23}{4} \times \frac{-8}{15}$$

$$B = \frac{23}{4} \times \frac{-8}{15}$$

$$B = \frac{-46}{15}$$

$$C = \frac{-3}{8} \times \left(\frac{-13}{12} + \frac{12}{5} \right)$$

$$C = \frac{-3}{8} \times \left(\frac{-13 \times 5}{12 \times 5} + \frac{12 \times 12}{5 \times 12} \right)$$

$$C = \frac{-3}{8} \times \left(\frac{-65}{60} + \frac{144}{60} \right)$$

$$C = \frac{-3}{8} \times \frac{79}{60}$$

$$C = \frac{-1 \times \cancel{3}}{8} \times \frac{79}{20 \times \cancel{3}}$$

$$C = \frac{-79}{160}$$

49 - / - / - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-7}{6} + 3$$

$$A = \frac{-7}{5} - \frac{5}{3}$$

$$A = \frac{-7}{6} + \frac{3 \times 6}{1 \times 6}$$

$$A = \frac{-7}{5} - \frac{5 \times 3}{1 \times 3}$$

$$A = \frac{-7}{5} + \frac{18}{15}$$

$$A = \frac{11}{6} \div \frac{-10}{3}$$

$$A = \frac{11}{6} \times \frac{-3}{10}$$

$$A = \frac{11}{-2 \times 3} \times \frac{1 \times 3}{10}$$

$$A = \frac{-11}{20}$$

$$B = \frac{3}{20} - \frac{3}{20} \times \frac{14}{15}$$

$$B = \frac{3}{20} - \frac{1 \times 3}{10 \times 2} \times \frac{7 \times 2}{5 \times 3}$$

$$B = \frac{3}{20} - \frac{7}{50}$$

$$B = \frac{3 \times 5}{20 \times 5} - \frac{7 \times 2}{50 \times 2}$$

$$B = \frac{15}{100} - \frac{14}{100}$$

$$B = \frac{1}{100}$$

$$C = \frac{-4}{7} \times \left(\frac{1}{10} - \frac{-12}{11} \right)$$

$$C = \frac{-4}{7} \times \left(\frac{1 \times 11}{10 \times 11} - \frac{-12 \times 10}{11 \times 10} \right)$$

$$C = \frac{-4}{7} \times \left(\frac{11}{110} - \frac{-120}{110} \right)$$

$$C = \frac{-4}{7} \times \frac{131}{110}$$

$$C = \frac{-2 \times 2}{7} \times \frac{131}{55 \times 2}$$

$$C = \frac{-262}{385}$$

4: - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{32}{35} - \frac{-18}{35} \div \frac{12}{35}$$

$$A = \frac{32}{35} - \frac{-18}{35} \times \frac{35}{12}$$

$$A = \frac{32}{35} - \frac{-3 \times 6}{1 \times 35} \times \frac{1 \times 35}{2 \times 6}$$

$$A = \frac{32}{35} - \frac{-3}{2}$$

$$A = \frac{32 \times 2}{35 \times 2} - \frac{-3 \times 35}{2 \times 35}$$

$$A = \frac{64}{70} - \frac{-105}{70}$$

$$A = \frac{169}{70}$$

$$B = \frac{-9}{10} \times \left(\frac{-1}{8} - \frac{-7}{3} \right)$$

$$B = \frac{-9}{10} \times \left(\frac{-1 \times 3}{8 \times 3} - \frac{-7 \times 8}{3 \times 8} \right)$$

$$B = \frac{-9}{10} \times \left(\frac{-3}{24} - \frac{-56}{24} \right)$$

$$B = \frac{-9}{10} \times \frac{53}{24}$$

$$B = \frac{-3 \times 3}{10} \times \frac{53}{8 \times 3}$$

$$B = \frac{-159}{80}$$

$$C = \frac{\frac{-4}{3} + 10}{\frac{10}{7} - 7}$$

$$C = \frac{\frac{-4}{3} + \frac{10 \times 3}{1 \times 3}}{\frac{10}{7} - \frac{7 \times 7}{1 \times 7}}$$

$$C = \frac{\frac{-4}{3} + \frac{30}{3}}{\frac{10}{7} - \frac{49}{7}}$$

$$C = \frac{26}{3} \div \frac{-39}{7}$$

$$C = \frac{26}{3} \times \frac{-7}{39}$$

$$C = \frac{2 \times 13}{-3 \times 3} \times \frac{7 \times 1}{3 \times 13}$$

$$C = \frac{-14}{9}$$

4: - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = -1 - \frac{-2}{45} \div \frac{-1}{9}$$

$$A = -1 - \frac{-2}{45} \times -9$$

$$A = -1 - \frac{-2}{-5 \times \cancel{9}} \times \frac{1 \times \cancel{9}}{1}$$

$$A = -1 - \frac{2}{5}$$

$$A = \frac{-1 \times 5}{1 \times 5} - \frac{2}{5}$$

$$A = \frac{-5}{5} - \frac{2}{5}$$

$$A = \frac{-7}{5}$$

$$B = \frac{9}{4} \div \left(\frac{-10}{11} - \frac{9}{4} \right)$$

$$B = \frac{9}{4} \div \left(\frac{-10 \times 4}{11 \times 4} - \frac{9 \times 11}{4 \times 11} \right)$$

$$B = \frac{9}{4} \div \left(\frac{-40}{44} - \frac{99}{44} \right)$$

$$B = \frac{9}{4} \div \frac{-139}{44}$$

$$B = \frac{9}{4} \times \frac{-44}{139}$$

$$B = \frac{9}{-1 \times \cancel{4}} \times \frac{11 \times \cancel{4}}{139}$$

$$B = \frac{-99}{139}$$

$$C = \frac{\frac{-9}{4} + 5}{\frac{7}{7} + 4}$$

$$C = \frac{\frac{-9}{4} + \frac{5 \times 4}{1 \times 4}}{\frac{7}{7} + \frac{4 \times 7}{1 \times 7}}$$

$$C = \frac{\frac{-9}{4} + \frac{20}{4}}{\frac{7}{7} + \frac{28}{7}}$$

$$C = \frac{11}{4} \div \frac{30}{7}$$

$$C = \frac{11}{4} \times \frac{7}{30}$$

$$C =$$

$$C = \frac{77}{120}$$

52 - / / / / /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{-1}{5} \div \left(\frac{-6}{7} - \frac{3}{4} \right)$$

$$A = \frac{-1}{5} \div \left(\frac{-6 \times 4}{7 \times 4} - \frac{3 \times 7}{4 \times 7} \right)$$

$$A = \frac{-1}{5} \div \left(\frac{-24}{28} - \frac{21}{28} \right)$$

$$A = \frac{-1}{5} \div \frac{-45}{28}$$

$$A = \frac{-1}{5} \times \frac{-28}{45}$$

$$A = \frac{-1}{-5 \times \cancel{1}} \times \frac{28 \times \cancel{1}}{45}$$

$$A = \frac{28}{225}$$

$$B = \frac{\frac{9}{5} - 4}{\frac{-3}{2} + 5}$$

$$B = \frac{\frac{9}{5} - \frac{4 \times 5}{1 \times 5}}{\frac{-3}{2} + \frac{5 \times 2}{1 \times 2}}$$

$$B = \frac{\frac{9}{5} - \frac{20}{5}}{\frac{-3}{2} + \frac{10}{2}}$$

$$B = \frac{-11}{5} \div \frac{7}{2}$$

$$B = \frac{-11}{5} \times \frac{2}{7}$$

$$B =$$

$$B = \frac{-22}{35}$$

$$C = \frac{-49}{5} - \frac{6}{5} \div \frac{-7}{4}$$

$$C = \frac{-49}{5} - \frac{6}{5} \times \frac{-4}{7}$$

$$C = \frac{-49}{5} - \frac{6}{-5 \times \cancel{1}} \times \frac{4 \times \cancel{1}}{7}$$

$$C = \frac{-49}{5} - \frac{-24}{35}$$

$$C = \frac{-49 \times 7}{5 \times 7} - \frac{-24}{35}$$

$$C = \frac{-343}{35} - \frac{-24}{35}$$

$$C = \frac{-319}{35}$$

53 - / / / / /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{8}{5} \div \left(\frac{-4}{5} + \frac{5}{2} \right)$$

$$A = \frac{8}{5} \div \left(\frac{-4 \times 2}{5 \times 2} + \frac{5 \times 5}{2 \times 5} \right)$$

$$A = \frac{8}{5} \div \left(\frac{-8}{10} + \frac{25}{10} \right)$$

$$A = \frac{8}{5} \div \frac{17}{10}$$

$$A = \frac{8}{5} \times \frac{10}{17}$$

$$A = \frac{8}{1 \times 5} \times \frac{2 \times 5}{17}$$

$$A = \frac{16}{17}$$

$$B = 6 - \frac{-21}{10} \times \frac{-40}{21}$$

$$B = 6 - \frac{-1 \times 21}{-1 \times 10} \times \frac{4 \times 10}{1 \times 21}$$

$$B = 6 - 4$$

$$B =$$

$$B = \frac{6}{1} - \frac{4}{1}$$

$$B = 2$$

$$C = \frac{\frac{6}{7} - 8}{\frac{9}{10} + 10}$$

$$C = \frac{\frac{6}{7} - \frac{8 \times 7}{1 \times 7}}{\frac{9}{10} + \frac{10 \times 10}{1 \times 10}}$$

$$C = \frac{\frac{6}{7} - \frac{56}{7}}{\frac{9}{10} + \frac{100}{10}}$$

$$C = \frac{-50}{7} \div \frac{109}{10}$$

$$C = \frac{-50}{7} \times \frac{10}{109}$$

$$C =$$

$$C = \frac{-500}{763}$$

54 - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{10}{7} - 7}{\frac{-8}{3} + 2}$$

$$A = \frac{\frac{10}{7} - \frac{7 \times 7}{1 \times 7}}{\frac{-8}{3} + \frac{2 \times 3}{1 \times 3}}$$

$$A = \frac{\frac{10}{7} - \frac{49}{7}}{\frac{-8}{3} + \frac{6}{3}}$$

$$A = \frac{-39}{7} \div \frac{-2}{3}$$

$$A = \frac{-39}{7} \times \frac{-3}{2}$$

$$A = \frac{-39}{-7 \times 1} \times \frac{3 \times 1}{2}$$

$$A = \frac{117}{14}$$

$$B = \frac{-1}{6} \times \left(\frac{-10}{13} + \frac{-9}{4} \right)$$

$$B = \frac{-1}{6} \times \left(\frac{-10 \times 4}{13 \times 4} + \frac{-9 \times 13}{4 \times 13} \right)$$

$$B = \frac{-1}{6} \times \left(\frac{-40}{52} + \frac{-117}{52} \right)$$

$$B = \frac{-1}{6} \times \frac{-157}{52}$$

$$B = \frac{-1}{-6 \times 1} \times \frac{157 \times 1}{52}$$

$$B = \frac{157}{312}$$

$$C = \frac{-35}{3} + \frac{5}{27} \times \frac{3}{5}$$

$$C = \frac{-35}{3} + \frac{1 \times 3}{9 \times 3} \times \frac{1 \times 3}{1 \times 3}$$

$$C = \frac{-35}{3} + \frac{1}{9}$$

$$C = \frac{-35 \times 3}{3 \times 3} + \frac{1}{9}$$

$$C = \frac{-105}{9} + \frac{1}{9}$$

$$C = \frac{-104}{9}$$

55 - / - / - / - /

احسب ثم اكتب النتيجة على أبسط شكل.

$$A = \frac{\frac{-3}{10} + 10}{\frac{-5}{4} - 2}$$

$$A = \frac{\frac{-3}{10} + \frac{10 \times 10}{1 \times 10}}{\frac{-5}{4} - \frac{2 \times 4}{1 \times 4}}$$

$$A = \frac{\frac{-3}{10} + \frac{100}{10}}{\frac{-5}{4} - \frac{8}{4}}$$

$$A = \frac{97}{10} \div \frac{-13}{4}$$

$$A = \frac{97}{10} \times \frac{-4}{13}$$

$$A = \frac{97}{-5 \times 2} \times \frac{2 \times -2}{13}$$

$$A = \frac{-194}{65}$$

$$B = \frac{8}{3} + \frac{-1}{3} \div \frac{8}{15}$$

$$B = \frac{8}{3} + \frac{-1}{3} \times \frac{15}{8}$$

$$B = \frac{8}{3} + \frac{-1}{1 \times 3} \times \frac{5 \times 3}{8}$$

$$B = \frac{8}{3} + \frac{-5}{8}$$

$$B = \frac{8 \times 8}{3 \times 8} + \frac{-5 \times 3}{8 \times 3}$$

$$B = \frac{64}{24} + \frac{-15}{24}$$

$$B = \frac{49}{24}$$

$$C = \frac{-3}{4} \times \left(\frac{-6}{5} - \frac{-10}{7} \right)$$

$$C = \frac{-3}{4} \times \left(\frac{-6 \times 7}{5 \times 7} - \frac{-10 \times 5}{7 \times 5} \right)$$

$$C = \frac{-3}{4} \times \left(\frac{-42}{35} - \frac{-50}{35} \right)$$

$$C = \frac{-3}{4} \times \frac{8}{35}$$

$$C = \frac{-3}{1 \times 4} \times \frac{2 \times 4}{35}$$

$$C = \frac{-6}{35}$$