

Exercice n° 1 Compléter les égalités.

1. $5 = \frac{\quad}{\quad} = \frac{\quad}{3}$

2. $\frac{5}{9} = \frac{\quad}{\quad} = \frac{\quad}{90}$

3. $\frac{1}{2} = \frac{\quad}{\quad} = \frac{\quad}{8}$

4. $\frac{2}{5} = \frac{\quad}{\quad} = \frac{\quad}{15}$

5. $\frac{3}{8} = \frac{\quad}{\quad} = \frac{\quad}{16}$

6. $5 = \frac{\quad}{\quad} = \frac{\quad}{9}$

7. $\frac{7}{10} = \frac{\quad}{\quad} = \frac{\quad}{110}$

8. $\frac{2}{3} = \frac{\quad}{\quad} = \frac{\quad}{33}$

9. $\frac{3}{7} = \frac{\quad}{\quad} = \frac{\quad}{77}$

10. $\frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{44}$

Exercice n° 2 Compléter les égalités.

1. $\frac{3}{7} = \frac{\quad}{\quad} = \frac{\quad}{21}$

2. $\frac{7}{9} = \frac{\quad}{\quad} = \frac{\quad}{27}$

3. $3 = \frac{\quad}{\quad} = \frac{\quad}{2}$

4. $\frac{5}{6} = \frac{\quad}{\quad} = \frac{\quad}{30}$

5. $\frac{1}{6} = \frac{\quad}{\quad} = \frac{\quad}{42}$

6. $\frac{2}{3} = \frac{\quad}{\quad} = \frac{\quad}{33}$

7. $6 = \frac{\quad}{\quad} = \frac{\quad}{3}$

8. $\frac{6}{7} = \frac{\quad}{\quad} = \frac{\quad}{56}$

9. $\frac{2}{7} = \frac{\quad}{\quad} = \frac{\quad}{14}$

10. $\frac{5}{9} = \frac{\quad}{\quad} = \frac{\quad}{45}$

Exercice n° 3 Simplifier les fractions suivantes.

1. $\frac{5}{25} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

2. $\frac{6}{36} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

3. $\frac{7}{63} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4. $\frac{27}{63} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

5. $\frac{9}{30} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

6. $\frac{20}{50} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

7. $\frac{50}{60} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

8. $\frac{56}{64} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

9. $\frac{80}{90} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

10. $\frac{25}{40} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

Exercice n° 4 Simplifier les fractions suivantes.

1. $\frac{3}{27} = \text{-----} = \text{---}$

2. $\frac{14}{16} = \text{-----} = \text{---}$

3. $\frac{2}{12} = \text{-----} = \text{---}$

4. $\frac{56}{80} = \text{-----} = \text{---}$

5. $\frac{9}{45} = \text{-----} = \text{---}$

6. $\frac{35}{42} = \text{-----} = \text{---}$

7. $\frac{20}{32} = \text{-----} = \text{---}$

8. $\frac{15}{21} = \text{-----} = \text{---}$

9. $\frac{8}{80} = \text{-----} = \text{---}$

10. $\frac{28}{63} = \text{-----} = \text{---}$

Exercice n° 5 Comparer les fractions suivantes.

1. $\frac{3}{7}$ et $\frac{17}{42}$

3. $\frac{2}{7}$ et $\frac{8}{21}$

5. $\frac{9}{10}$ et $\frac{85}{90}$

2. $\frac{76}{88}$ et $\frac{7}{8}$

4. $\frac{41}{64}$ et $\frac{5}{8}$

Exercice n° 6 Comparer les fractions suivantes.

1. $\frac{1}{3}$ et $\frac{5}{21}$

3. $\frac{39}{63}$ et $\frac{4}{7}$

5. $\frac{3}{10}$ et $\frac{2}{20}$

2. $\frac{3}{7}$ et $\frac{7}{21}$

4. $\frac{2}{7}$ et $\frac{19}{70}$

Exercice n° 7 Calculer :

1. $\frac{1}{9} \times 9$

3. $\frac{2}{5} \times 50$

5. $\frac{2}{3} \times 15$

2. $\frac{1}{4} \times 36$

4. $\frac{2}{9} \times 54$

Exercice n° 8 Calculer :

1. $\frac{5}{6} \times 12$

3. $\frac{3}{5} \times 25$

5. $\frac{1}{5} \times 40$

2. $\frac{4}{9} \times 36$

4. $\frac{1}{2} \times 8$

Exercice n° 1

1. $5 = \frac{5}{1} = \frac{5 \times 3}{1 \times 3} = \frac{15}{3}$

2. $\frac{5}{9} = \frac{5 \times 10}{9 \times 10} = \frac{50}{90}$

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

4. $\frac{2}{5} = \frac{2 \times 3}{5 \times 3} = \frac{6}{15}$

5. $\frac{3}{8} = \frac{3 \times 2}{8 \times 2} = \frac{6}{16}$

6. $5 = \frac{5}{1} = \frac{5 \times 9}{1 \times 9} = \frac{45}{9}$

7. $\frac{7}{10} = \frac{7 \times 11}{10 \times 11} = \frac{77}{110}$

8. $\frac{2}{3} = \frac{2 \times 11}{3 \times 11} = \frac{22}{33}$

9. $\frac{3}{7} = \frac{3 \times 11}{7 \times 11} = \frac{33}{77}$

10. $\frac{3}{4} = \frac{3 \times 11}{4 \times 11} = \frac{33}{44}$

Exercice n° 2

1. $\frac{3}{7} = \frac{3 \times 3}{7 \times 3} = \frac{9}{21}$

2. $\frac{7}{9} = \frac{7 \times 3}{9 \times 3} = \frac{21}{27}$

3. $3 = \frac{3}{1} = \frac{3 \times 2}{1 \times 2} = \frac{6}{2}$

4. $\frac{5}{6} = \frac{5 \times 5}{6 \times 5} = \frac{25}{30}$

5. $\frac{1}{6} = \frac{1 \times 7}{6 \times 7} = \frac{7}{42}$

6. $\frac{2}{3} = \frac{2 \times 11}{3 \times 11} = \frac{22}{33}$

7. $6 = \frac{6}{1} = \frac{6 \times 3}{1 \times 3} = \frac{18}{3}$

8. $\frac{6}{7} = \frac{6 \times 8}{7 \times 8} = \frac{48}{56}$

9. $\frac{2}{7} = \frac{2 \times 2}{7 \times 2} = \frac{4}{14}$

10. $\frac{5}{9} = \frac{5 \times 5}{9 \times 5} = \frac{25}{45}$

Exercice n° 3

1. $\frac{5}{25} = \frac{5 \times 1}{5 \times 5} = \frac{1}{5}$

2. $\frac{6}{36} = \frac{6 \times 1}{6 \times 6} = \frac{1}{6}$

3. $\frac{7}{63} = \frac{7 \times 1}{7 \times 9} = \frac{1}{9}$

4. $\frac{27}{63} = \frac{9 \times 3}{9 \times 7} = \frac{3}{7}$

5. $\frac{9}{30} = \frac{3 \times 3}{3 \times 10} = \frac{3}{10}$

6. $\frac{20}{50} = \frac{10 \times 2}{10 \times 5} = \frac{2}{5}$

7. $\frac{50}{60} = \frac{10 \times 5}{10 \times 6} = \frac{5}{6}$

8. $\frac{56}{64} = \frac{8 \times 7}{8 \times 8} = \frac{7}{8}$

9. $\frac{80}{90} = \frac{10 \times 8}{10 \times 9} = \frac{8}{9}$

10. $\frac{25}{40} = \frac{5 \times 5}{5 \times 8} = \frac{5}{8}$

Exercice n° 4

1. $\frac{3}{27} = \frac{3 \times 1}{3 \times 9} = \frac{1}{9}$

2. $\frac{14}{16} = \frac{2 \times 7}{2 \times 8} = \frac{7}{8}$

3. $\frac{2}{12} = \frac{2 \times 1}{2 \times 6} = \frac{1}{6}$

4. $\frac{56}{80} = \frac{8 \times 7}{8 \times 10} = \frac{7}{10}$

$$5. \frac{9}{45} = \frac{9 \times 1}{9 \times 5} = \frac{1}{5}$$

$$6. \frac{35}{42} = \frac{7 \times 5}{7 \times 6} = \frac{5}{6}$$

$$7. \frac{20}{32} = \frac{4 \times 5}{4 \times 8} = \frac{5}{8}$$

$$8. \frac{15}{21} = \frac{3 \times 5}{3 \times 7} = \frac{5}{7}$$

$$9. \frac{8}{80} = \frac{8 \times 1}{8 \times 10} = \frac{1}{10}$$

$$10. \frac{28}{63} = \frac{7 \times 4}{7 \times 9} = \frac{4}{9}$$

Exercice n° 5

$$1. \frac{3}{7} = \frac{3 \times 6}{7 \times 6} = \frac{18}{42} \quad \text{et} \quad \frac{18}{42} > \frac{17}{42} \quad \text{donc} \quad \frac{3}{7} > \frac{17}{42}$$

$$2. \frac{7}{8} = \frac{7 \times 11}{8 \times 11} = \frac{77}{88} \quad \text{et} \quad \frac{76}{88} < \frac{77}{88} \quad \text{donc} \quad \frac{76}{88} < \frac{7}{8}$$

$$3. \frac{2}{7} = \frac{2 \times 3}{7 \times 3} = \frac{6}{21} \quad \text{et} \quad \frac{6}{21} < \frac{8}{21} \quad \text{donc} \quad \frac{2}{7} < \frac{8}{21}$$

$$4. \frac{5}{8} = \frac{5 \times 8}{8 \times 8} = \frac{40}{64} \quad \text{et} \quad \frac{41}{64} > \frac{40}{64} \quad \text{donc} \quad \frac{41}{64} > \frac{5}{8}$$

$$5. \frac{9}{10} = \frac{9 \times 9}{10 \times 9} = \frac{81}{90} \quad \text{et} \quad \frac{81}{90} < \frac{85}{90} \quad \text{donc} \quad \frac{9}{10} < \frac{85}{90}$$

Exercice n° 6

$$1. \frac{1}{3} = \frac{1 \times 7}{3 \times 7} = \frac{7}{21} \quad \text{et} \quad \frac{7}{21} > \frac{5}{21} \quad \text{donc} \quad \frac{1}{3} > \frac{5}{21}$$

$$2. \frac{3}{7} = \frac{3 \times 3}{7 \times 3} = \frac{9}{21} \quad \text{et} \quad \frac{9}{21} > \frac{7}{21} \quad \text{donc} \quad \frac{3}{7} > \frac{7}{21}$$

$$3. \frac{4}{7} = \frac{4 \times 9}{7 \times 9} = \frac{36}{63} \quad \text{et} \quad \frac{39}{63} > \frac{36}{63} \quad \text{donc} \quad \frac{39}{63} > \frac{4}{7}$$

$$4. \frac{2}{7} = \frac{2 \times 10}{7 \times 10} = \frac{20}{70} \quad \text{et} \quad \frac{20}{70} > \frac{19}{70} \quad \text{donc} \quad \frac{2}{7} > \frac{19}{70}$$

$$5. \frac{3}{10} = \frac{3 \times 2}{10 \times 2} = \frac{6}{20} \quad \text{et} \quad \frac{6}{20} > \frac{2}{20} \quad \text{donc} \quad \frac{3}{10} > \frac{2}{20}$$

Exercice n° 7

$$1. \frac{1}{9} \times 9 = 9 \div 9 = 1$$

$$2. \frac{1}{4} \times 36 = 36 \div 4 = 9$$

3. $\frac{2}{5} \times 50 = (50 \div 5) \times 2 = 10 \times 2 = 20$

4. $\frac{2}{9} \times 54 = (54 \div 9) \times 2 = 6 \times 2 = 12$

5. $\frac{2}{3} \times 15 = (15 \div 3) \times 2 = 5 \times 2 = 10$

Exercice n° 8

1. $\frac{5}{6} \times 12 = (12 \div 6) \times 5 = 2 \times 5 = 10$

2. $\frac{4}{9} \times 36 = (36 \div 9) \times 4 = 4 \times 4 = 16$

3. $\frac{3}{5} \times 25 = (25 \div 5) \times 3 = 5 \times 3 = 15$

4. $\frac{1}{2} \times 8 = 8 \div 2 = 4$

5. $\frac{1}{5} \times 40 = 40 \div 5 = 8$