

FI GMF 10

1.1 Les rapports et les proportions

Résoudre les proportions suivantes.

1) $\frac{6}{9} = -\frac{8}{m}$

2) $\frac{10}{p} = -\frac{6}{7}$

3) $-\frac{3}{p} = -\frac{8}{6}$

4) $\frac{7}{4} = \frac{3}{x}$

5) $\frac{8}{5} = \frac{9}{r}$

6) $-\frac{6}{x} = -\frac{10}{8}$

7) $-\frac{10}{7} = \frac{v}{8}$

8) $\frac{3}{8} = -\frac{b}{7}$

9) $\frac{4}{7} = -\frac{k}{3}$

10) $\frac{n}{5} = \frac{4}{6}$

11) $\frac{8}{2} = \frac{r}{7}$

12) $\frac{7}{12} = -\frac{m}{6}$

13) $\frac{11}{10} = -\frac{10}{k}$

14) $\frac{n}{4} = \frac{12}{9}$

15) $\frac{n}{12} = \frac{3}{5}$

16) $-\frac{10}{6} = \frac{x}{7}$

17) $-\frac{p}{4} = -\frac{2}{3}$

18) $\frac{10}{2} = -\frac{v}{9}$

19) $\frac{r}{8} = \frac{11}{5}$

20) $\frac{2}{4} = \frac{11}{k}$

21) $\frac{9}{3} = \frac{5}{n}$

22) $\frac{3}{n} = \frac{10}{4}$

23) $\frac{11}{5} = \frac{b}{3}$

24) $-\frac{p}{2} = \frac{3}{4}$

25) $\frac{x}{7} = \frac{4}{5}$

26) $\frac{4}{3} = -\frac{2}{x}$

27) $\frac{7}{x} = \frac{6}{4}$

28) $\frac{6}{3} = \frac{5}{r}$

29) $\frac{9}{8} = \frac{p}{9}$

30) $\frac{9}{v} = \frac{5}{7}$

31) $\frac{5}{n+3} = \frac{10}{7}$

32) $\frac{x-1}{10} = \frac{8}{9}$

33) $\frac{4}{a+2} = \frac{5}{8}$

34) $\frac{3}{9} = \frac{x+4}{10}$

35) $\frac{k-3}{5} = \frac{k}{9}$

36) $\frac{a+7}{a} = \frac{10}{9}$

37) $\frac{x-7}{4} = \frac{x}{7}$

38) $\frac{6}{a} = \frac{4}{a-4}$

39) $\frac{10}{6} = \frac{r-3}{r-7}$

40) $\frac{r+7}{9} = \frac{r-2}{5}$

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1.1 Les rapports et les proportions

Résoudre les proportions suivantes.

1) $\frac{6}{9} = -\frac{8}{m}$
 $\left\{ \begin{array}{l} -12 \end{array} \right.$

2) $\frac{10}{p} = -\frac{6}{7}$
 $\left\{ \begin{array}{l} -\frac{35}{3} \end{array} \right.$

3) $-\frac{3}{p} = -\frac{8}{6}$
 $\left\{ \begin{array}{l} \frac{9}{4} \end{array} \right.$

4) $\frac{7}{4} = \frac{3}{x}$
 $\left\{ \begin{array}{l} \frac{12}{7} \end{array} \right.$

5) $\frac{8}{5} = \frac{9}{r}$
 $\left\{ \begin{array}{l} \frac{45}{8} \end{array} \right.$

6) $-\frac{6}{x} = -\frac{10}{8}$
 $\left\{ \begin{array}{l} \frac{24}{5} \end{array} \right.$

7) $-\frac{10}{7} = \frac{v}{8}$
 $\left\{ \begin{array}{l} -\frac{80}{7} \end{array} \right.$

8) $\frac{3}{8} = -\frac{b}{7}$
 $\left\{ \begin{array}{l} -\frac{21}{8} \end{array} \right.$

9) $\frac{4}{7} = -\frac{k}{3}$
 $\left\{ \begin{array}{l} -\frac{12}{7} \end{array} \right.$

10) $\frac{n}{5} = \frac{4}{6}$
 $\left\{ \begin{array}{l} \frac{10}{3} \end{array} \right.$

$$11) \frac{8}{2} = \frac{r}{7}$$
$$\{28\}$$

$$12) \frac{7}{12} = -\frac{m}{6}$$
$$\left\{-\frac{7}{2}\right\}$$

$$13) \frac{11}{10} = -\frac{10}{k}$$
$$\left\{-\frac{100}{11}\right\}$$

$$14) \frac{n}{4} = \frac{12}{9}$$
$$\left\{\frac{16}{3}\right\}$$

$$15) \frac{n}{12} = \frac{3}{5}$$
$$\left\{\frac{36}{5}\right\}$$

$$16) -\frac{10}{6} = \frac{x}{7}$$
$$\left\{-\frac{35}{3}\right\}$$

$$17) -\frac{p}{4} = -\frac{2}{3}$$
$$\left\{\frac{8}{3}\right\}$$

$$18) \frac{10}{2} = -\frac{v}{9}$$
$$\{-45\}$$

$$19) \frac{r}{8} = \frac{11}{5}$$
$$\left\{\frac{88}{5}\right\}$$

$$20) \frac{2}{4} = \frac{11}{k}$$
$$\{22\}$$

21) $\frac{9}{3} = \frac{5}{n}$

$$\left(\frac{5}{3}\right)$$

22) $\frac{3}{n} = \frac{10}{4}$

$$\left(\frac{6}{5}\right)$$

23) $\frac{11}{5} = \frac{b}{3}$

$$\left(\frac{33}{5}\right)$$

24) $-\frac{p}{2} = \frac{3}{4}$

$$\left(-\frac{3}{2}\right)$$

25) $\frac{x}{7} = \frac{4}{5}$

$$\left(\frac{28}{5}\right)$$

26) $\frac{4}{3} = -\frac{2}{x}$

$$\left(-\frac{3}{2}\right)$$

27) $\frac{7}{x} = \frac{6}{4}$

$$\left(\frac{14}{3}\right)$$

28) $\frac{6}{3} = \frac{5}{r}$

$$\left(\frac{5}{2}\right)$$

29) $\frac{9}{8} = \frac{p}{9}$

$$\left(\frac{81}{8}\right)$$

30) $\frac{9}{v} = \frac{5}{7}$

$$\left(\frac{63}{5}\right)$$

31) $\frac{5}{n+3} = \frac{10}{7}$

$$\left\{ \frac{1}{2} \right\}$$

32) $\frac{x-1}{10} = \frac{8}{9}$

$$\left\{ \frac{89}{9} \right\}$$

33) $\frac{4}{a+2} = \frac{5}{8}$

$$\left\{ \frac{22}{5} \right\}$$

34) $\frac{3}{9} = \frac{x+4}{10}$

$$\left\{ -\frac{2}{3} \right\}$$

35) $\frac{k-3}{5} = \frac{k}{9}$

$$\left\{ \frac{27}{4} \right\}$$

36) $\frac{a+7}{a} = \frac{10}{9}$

$$\{63\}$$

37) $\frac{x-7}{4} = \frac{x}{7}$

$$\left\{ \frac{49}{3} \right\}$$

38) $\frac{6}{a} = \frac{4}{a-4}$

$$\{12\}$$

39) $\frac{10}{6} = \frac{r-3}{r-7}$

$$\{13\}$$

40) $\frac{r+7}{9} = \frac{r-2}{5}$

$$\left\{ \frac{53}{4} \right\}$$