Calculating with Mixed Numbers

ANSWERS

1

Work out $1\frac{3}{4} \times 1\frac{2}{5}$.

$\frac{7}{4} \times \frac{7}{5}$

$= \frac{49}{20}$

$= 2\frac{9}{20}$

Answer $2\frac{9}{20}$

2

Work out $2\frac{2}{3} \times 1\frac{1}{3}$.

$\frac{8}{3} \times \frac{4}{3}$

$= \frac{32}{9}$

$= 3\frac{5}{9}$

Answer $3\frac{5}{9}$

3

Work out $2\frac{1}{2} \div 1\frac{1}{3}$.

$\frac{5}{2} \div \frac{4}{3}$

$= \frac{5}{2} \times \frac{3}{4}$

$= \frac{15}{8}$

$= 1\frac{7}{8}$

Answer $1\frac{7}{8}$

4

Work out $3\frac{1}{3} \div 1\frac{1}{2}$.

$\frac{10}{3} \div \frac{3}{2}$

$= \frac{10}{3} \times \frac{2}{3}$

$= \frac{20}{9} = 2\frac{2}{9}$

Answer $2\frac{2}{9}$

5

Work out $1\frac{1}{2} + 2\frac{2}{3}$.

$\frac{3}{2} + \frac{8}{3}$

$= \frac{9}{6} + \frac{16}{6}$

$= \frac{25}{6}$

$= 4\frac{1}{6}$

Answer $4\frac{1}{6}$

6

Work out $1\frac{3}{5} + 2\frac{1}{2}$.

$\frac{8}{5} + \frac{5}{2}$

$= \frac{16}{10} + \frac{25}{10}$

$= \frac{41}{10}$

$= 4\frac{1}{10}$

Answer $4\frac{1}{10}$

7

Work out $3\frac{3}{4} - 1\frac{1}{3}$.

$\frac{15}{4} - \frac{4}{3}$

$= \frac{45}{12} - \frac{16}{12}$

$= \frac{29}{12}$

$= 2\frac{5}{12}$

Answer $2\frac{5}{12}$

8

Work out $4\frac{1}{5} - 1\frac{1}{2}$.

$\frac{21}{5} - \frac{3}{2}$

$= \frac{42}{10} - \frac{15}{10}$

$= \frac{27}{10} = 2\frac{7}{10}$

Answer $2\frac{7}{10}$

Calculating with Mixed Numbers *further practice*

ANSWERS

9

Work out $5\frac{1}{3} - 2\frac{3}{4}$.

$\frac{16}{3} - \frac{11}{4}$

$= \frac{64}{12} - \frac{33}{12}$

$= \frac{31}{12} = 2\frac{7}{12}$

Answer $2\frac{7}{12}$

10

Work out $3 \times 2\frac{3}{4}$.

$\frac{3}{1} \times \frac{11}{4}$

$= \frac{33}{4} = 8\frac{1}{4}$

Answer $8\frac{1}{4}$

11

Work out $1\frac{1}{2} \times 2\frac{2}{3}$. Give your answer in its simplest form.

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

$= \frac{24}{6} = 4$

Answer 4

12

A roll of fabric is $7\frac{1}{2}$ m long.

Each cushion cover needs $1\frac{1}{4}$ m of fabric. How many cushion covers can be made from the roll?

$\frac{15}{2} \div \frac{5}{4}$

$= \frac{15}{2} \times \frac{4}{5}$

$= \frac{60}{10} = 6$

Answer 6

13

A walk is $4\frac{1}{2}$ km long. Ali has walked $1\frac{2}{3}$ km. How much further does Ali have to walk?

$\frac{9}{2} - \frac{5}{3}$

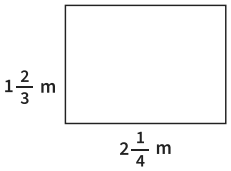
$= \frac{27}{6} - \frac{10}{6}$

$= \frac{17}{6} = 2\frac{5}{6}$

Answer $2\frac{5}{6}$ km

14

Find the area of the rectangle.
Give your answer in its simplest form.



$\frac{9}{4} \times \frac{5}{3}$

$= \frac{45}{12} = 3\frac{9}{12} = 3\frac{3}{4}$

Answer $3\frac{3}{4}$ m^2

15

Which is bigger, $1\frac{2}{3} \times 1\frac{1}{2}$ or $1\frac{2}{3} + 1\frac{1}{2}$? Show how you know.

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

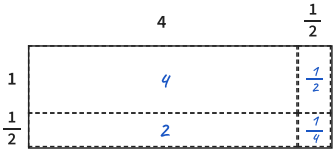
$1\frac{2}{3} + 1\frac{1}{2} = 3\frac{1}{6}$

Answer $1\frac{2}{3} + 1\frac{1}{2}$

16

Jo works out $1\frac{1}{2} \times 4\frac{1}{2}$ as $1 \times 4 = 4$ and $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$, so $4\frac{1}{4}$.

Use the rectangle to explain why Jo is wrong. Find the right answer.



Jo missed 2 and $\frac{1}{2}$

$6\frac{3}{4}$

Answer $6\frac{3}{4}$