

Interleaved: adding, multiplying and dividing fractions

ANSWERS

1

Work out $\frac{2}{3} + \frac{1}{4}$. Give your answer in its simplest form.

Which method? ☒ Add or subtract ☐ Multiply
☐ Divide

common denominator 12: $\frac{8}{12} + \frac{3}{12}$

Answer $\frac{11}{12}$

2

Work out $\frac{3}{5} \times \frac{2}{7}$. Give your answer in its simplest form.

Which method? ☐ Add or subtract ☒ Multiply
☐ Divide

no common denominator: tops $\times$ tops,
bottoms $\times$ bottoms

Answer $\frac{6}{35}$

3

Work out $\frac{3}{4} \div \frac{2}{5}$. Give your answer in its simplest form.

Which method? ☐ Add or subtract ☐ Multiply
☒ Divide

$\frac{3}{4} \times \frac{5}{2} = \frac{15}{8}$

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

4

Work out $\frac{5}{6} - \frac{3}{8}$. Give your answer in its simplest form.

Which method? ☒ Add or subtract ☐ Multiply
☐ Divide

$\frac{20}{24} - \frac{9}{24}$

Answer $\frac{11}{24}$

5

Work out $2 \frac{1}{2} \div \frac{3}{4}$. Give your answer in its simplest form.

Which method? ☐ Add or subtract ☐ Multiply
☒ Divide

$\frac{5}{2} \times \frac{4}{3} = \frac{10}{3}$

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

6

A path is $1 \frac{1}{3}$ km long. Lily has walked $\frac{3}{5}$ of it. How far has she walked?

Which method? ☐ Add or subtract ☒ Multiply
☐ Divide

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

Answer $\frac{4}{5}$ km

7

Work out $1 \frac{3}{4} + 2 \frac{2}{3}$. Give your answer in its simplest form.

Which method? ☒ Add or subtract ☐ Multiply
☐ Divide

$3 + \frac{9}{12} + \frac{8}{12}$

Answer $4 \frac{5}{12}$

8

A jug holds 6 litres of squash. How many glasses holding $\frac{3}{8}$ of a litre can be filled from it?

Which method? ☐ Add or subtract ☐ Multiply
☒ Divide

Answer 16

Interleaved: adding, multiplying and dividing fractions *further practice*

ANSWERS

9

Mo practises the piano for $\frac{3}{4}$ of an hour every day for 5 days. How long is that altogether?

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

10

Ali eats $\frac{1}{3}$ of a pizza and Ben eats $\frac{2}{5}$ of it. What fraction of the pizza is left?

Answer $\frac{4}{15}$

11

Work out $\frac{4}{9} \div \frac{2}{3}$. Give your answer in its simplest form.

Answer $\frac{2}{3}$

12

A rectangular rug is $2 \frac{1}{4}$ m long and $1 \frac{1}{3}$ m wide. Find its area.

Answer 3 m^2

13

Work out $3 \frac{1}{2} - 1 \frac{4}{5}$. Give your answer in its simplest form.

$\frac{35}{10} - \frac{18}{10}$

Answer $1 \frac{7}{10}$

14

A ribbon $5 \frac{1}{4}$ m long is cut into pieces $\frac{3}{4}$ m long. How many pieces are there?

Answer 7

15

$\frac{3}{4}$ of a class of 32 walk to school. $\frac{2}{3}$ of those who walk come with a friend. How many come with a friend?

Answer 16

16

Sam says $\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$. Explain why he is wrong and find the right answer.

he added the tops and the bottoms; adding needs a common denominator: $\frac{3}{6} + \frac{2}{6}$

Answer $\frac{5}{6}$