Name:

Exam Style Questions

Multiplying Fractions
Dividing Fractions

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 134

Video 142

1. Work out

$\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$

$\frac{3}{10}$

(1)

2. Work out

$\frac{7}{8} \times \frac{3}{4}$ $\frac{21}{32}$

$\frac{21}{32}$

(1)

3. Work out

$\frac{4}{5} \times \frac{9}{10} = \frac{36}{50} = \frac{18}{25}$

Give your answer as a fraction in its simplest form.

or $\frac{\cancel{4}^{2}}{5} \times \frac{9}{\cancel{10}_{5}} = \frac{18}{25}$

$\frac{18}{25}$

(2)

4. Work out

$\frac{2}{3} \div \frac{8}{11}$ $\frac{2}{3} \times \frac{11}{8} = \frac{22}{24} = \frac{11}{12}$

Give your answer as a fraction in its simplest form.

or $\frac{\cancel{8}^{1}}{3} \times \frac{11}{\cancel{8}_{4}} = \frac{11}{12}$

$\frac{11}{12}$

(2)

5. Work out

$\frac{1}{4} \div \frac{6}{7}$ $\frac{1}{4} \times \frac{7}{6} = \frac{7}{24}$

$\frac{7}{24}$

.....

(1)

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6. Work out

$\frac{5}{13} \div \frac{2}{3}$ $\frac{5}{13} \times \frac{3}{2} = \frac{15}{26}$

$\frac{15}{26}$

.....

(1)

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7. Work out

$\frac{2}{17} \div \frac{2}{5}$ $\frac{2}{17} \times \frac{5}{2} = \frac{10}{34} = \frac{5}{17}$

Give your answer as a fraction in its simplest form.

or $\frac{\cancel{2}^{1}}{17} \times \frac{5}{\cancel{2}_{1}} = \frac{5}{17}$

$\frac{5}{17}$

.....

(2)

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8. Work out

$\frac{5}{14} \times \frac{3}{4} = \frac{15}{56}$

$\frac{15}{56}$

.....

(1)

9. Work out

$\frac{2}{3} \times 18$ $\frac{2}{3} \times \frac{18}{1} = \frac{36}{3} = 12$

or $\frac{2}{\cancel{3}_1} \times \frac{\cancel{18}^{6}}{1} = \frac{12}{1} = 12$

12

(1)

10. Work out

$5 \div \frac{3}{4}$ $\frac{5}{1} \times \frac{4}{3} = \frac{20}{3}$

$6\frac{2}{3}$

(2)

11. Work out

$1\frac{1}{3} \times 2\frac{2}{5}$

Give your answer as a mixed number.

$\frac{4}{3} \times \frac{12}{5} = \frac{48}{15} = \frac{16}{5}$

or $\frac{4}{\cancel{3}_1} \times \frac{\cancel{12}^{4}}{5} = \frac{16}{5}$

$3\frac{1}{5}$

(3)

12. Work out

$$1\frac{4}{7} \div 1\frac{1}{4}$$

$\frac{11}{7} \div \frac{5}{4}$

Give your answer as a mixed number.

$\frac{11}{7} \times \frac{4}{5} = \frac{44}{35}$

$1\frac{9}{35}$

.....

(3)

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13. Work out

$$5\frac{1}{2} \times 1\frac{2}{3}$$

$\frac{11}{2} \times \frac{5}{3} = \frac{55}{6}$

Give your answer as a mixed number.

$9\frac{1}{6}$

.....

(3)

14. Work out

$\frac{5}{6} \div 3$

$\frac{5}{6} \div \frac{3}{1}$

$\frac{5}{6} \times \frac{1}{3} = \frac{5}{18}$

Answer: $\frac{5}{18}$

(2)

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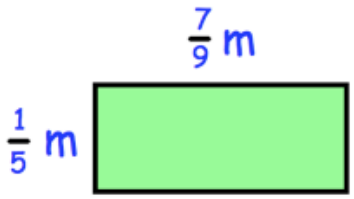
15. Calculate the area of the rectangle



Include suitable units.

$\frac{1}{5} \times \frac{7}{9} = \frac{7}{45}$

Answer: $\frac{7}{45}$ m^2

(2)

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16. Aled feeds his pet cat ⅗ of a can of cat food each day.
How many cans of cat food should Aled buy each week?

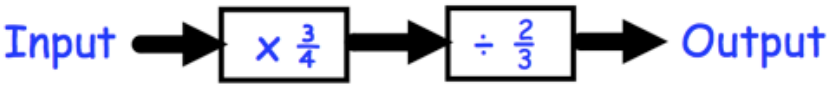
$\frac{3}{5} \times 7$

$\frac{3}{5} \times \frac{7}{1} = \frac{21}{5} = 4\frac{1}{5}$

Answer: 5 cans

(3)

17.



(a) Find the output, if the input is 2.

$\frac{2}{1} \times \frac{3}{4} = \frac{6}{4} = \frac{3}{2}$

$\frac{3}{2} \div \frac{2}{3} = \frac{3}{2} \times \frac{3}{2} = \frac{9}{4}$

$2\frac{1}{4}$

(3)

(b) Find the input, if the output is ½

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

$\frac{1}{3} \div \frac{3}{4} = \frac{1}{3} \times \frac{4}{3} = \frac{4}{9}$

$\frac{4}{9}$

(3)

18. Mrs Holland wants to paint her garage wall.

The wall measures $6\frac{2}{3}$ m by $3\frac{1}{7}$ m

Each can of paint covers 5m².
Each can costs £7.50

How much will it cost Mrs Holland to paint her garage wall?

$\frac{20}{3} \times \frac{22}{7} = \frac{440}{21} = 20\frac{20}{21}$

$\therefore$ 5 cans needed.

$5 \times £7.50 = £37.50$

£37.50

(5)