

Multiply and dividing fractions

1. Work out $\frac{1}{3} \times \frac{1}{6}$.
Give your answer in its simplest form.

$$\frac{1}{18}$$

(2 marks)

2. Calculate $\frac{1}{4} \times \frac{2}{5}$.
Give your answer in its simplest form.

$$\frac{2}{20} = \frac{1}{10}$$

(2 marks)

3. Calculate $\frac{1}{10} \div 5$.
Give your answer as a simplified fraction.

$$\frac{1}{10} \times \frac{1}{5} = \frac{1}{50}$$

(2 marks)

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4. Work out $\frac{5}{7} \div \frac{4}{5}$.
Give your answer in its simplest form.

$$\frac{5}{7} \times \frac{5}{4} = \frac{25}{28}$$

(2 marks)

5. Work out $\frac{5}{6} \times 2$.
Give your answer in its simplest form.

$$\frac{5}{6} \times \frac{2}{1} = \frac{10}{6} = 1\frac{2}{3}$$

(3 marks)

6. Calculate $\frac{7}{12} \times \frac{3}{7}$.
Give your answer as a mixed number.

$$\frac{21}{84} = \frac{1}{4}$$

(2 marks)

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

$$\frac{7}{3} \times \frac{3}{2} = \frac{21}{6} = 3\frac{1}{2}$$

(3 marks)

8. Calculate $3\frac{1}{4} \times 1\frac{2}{5}$.
Give your answer as a mixed number in its simplest form.

$$\frac{13}{4} \times \frac{7}{5} = \frac{91}{20} = 4\frac{11}{20}$$

(3 marks)

9. Work out $5\frac{2}{3} \div 2\frac{1}{2}$.
Give your answer as a simplified mixed number.

$$\frac{17}{3} \times \frac{2}{5} = \frac{34}{15} = 2\frac{4}{15}$$

(3 marks)

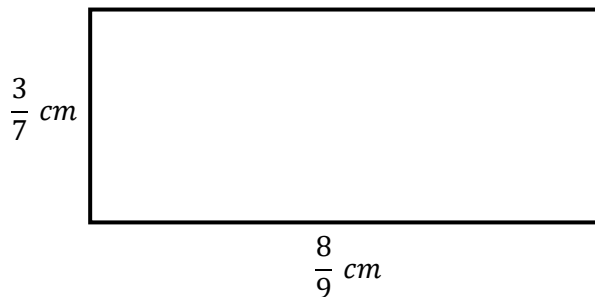
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10. Work out $\frac{1}{5} \times \frac{3}{8} \div \frac{1}{3}$.
Give your answer in its simplest form.

$$\frac{3}{40} \times \frac{3}{1} = \frac{9}{40}$$

(3 marks)

11. Below is a rectangle.
Find the area of the rectangle.
Give your answer as a fraction in its simplest form.

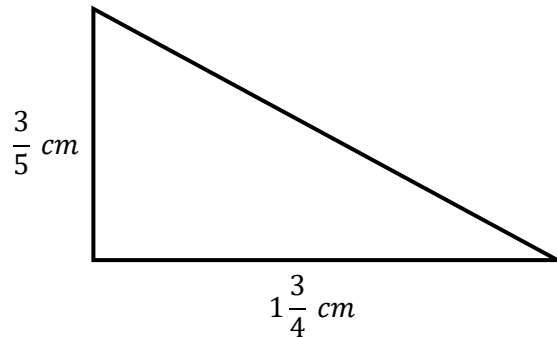


$$\frac{3}{7} \times \frac{8}{9} = \frac{24}{63} = \frac{8}{21} \text{ cm}^2$$

(3 marks)

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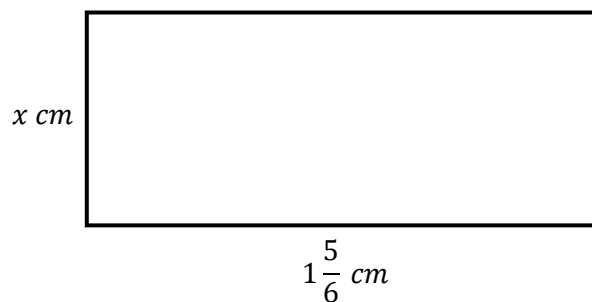
12. Below is a triangle.
Find the area of the triangle.
Give your answer as a fraction in its simplest form.



$$\left(\frac{7}{4} \times \frac{3}{5}\right) \div 2 = \frac{21}{20} \times \frac{1}{2} = \frac{21}{40} \text{ cm}^2$$

(3 marks)

13. Below is a rectangle.
The area of the rectangle is $2\frac{1}{3} \text{ cm}^2$.
Find x .
Give your answer as a fraction in its simplest form.



$$\frac{7}{3} \div \frac{11}{6} = \frac{7}{3} \times \frac{6}{11} = \frac{14}{11} = 1\frac{3}{11} \text{ cm}^2$$

(3 marks)

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14. Jill has a cat called Ellie.
Ellie eats $\frac{2}{3}$ of a tin of cat food every day.
How many tins of cat food will Jill need to feed Ellie for a week?

$$\frac{2}{3} \times \frac{7}{1} = \frac{14}{3} = 4\frac{2}{3} = 5 \text{ tins}$$

(3 marks)

15. Daniel wants to paint a wall which measures
 $4\frac{4}{5}m \times 3\frac{1}{6}m$
The tin of paint costs £12.99
The tin covers $5m^2$.
How much will it cost Daniel to paint his wall?

$$\frac{24}{5} \times \frac{19}{6} = \frac{456}{30} = \frac{76}{5} = 15\frac{1}{5}m^2$$

Will need 4 tins of paint.
 $£12.99 \times 4 = £51.96$

(4 marks)