

# Armadale Academy



## S1 Maths Revision Booklet May Assessment

### How to use this booklet:

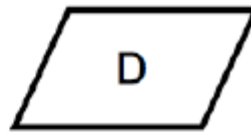
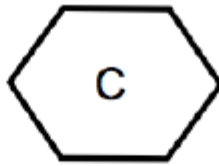
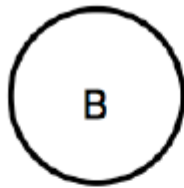
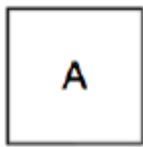
There are questions on each topic that has been covered so far in the S1 mathematics course.

Next to each set of questions is a QR code which you can scan with your phone.

These QR codes will take you videos with explanations of how to answer the questions if you are unsure.

## 2D Shape

### Common 2D Shapes



(a) Which shape is a circle?

(b) Which shape is a hexagon?

(c) Which shape is a square?

(d) Which shape is a parallelogram?

Shape.....  
(1)

Shape.....  
(1)

Shape.....  
(1)

Shape.....  
(1)

*Video 1 - Common 2D Shapes*

### Types of triangles

Match each triangle to the correct name.



Right-angled triangle



Equilateral triangle



Scalene triangle



Isosceles triangle

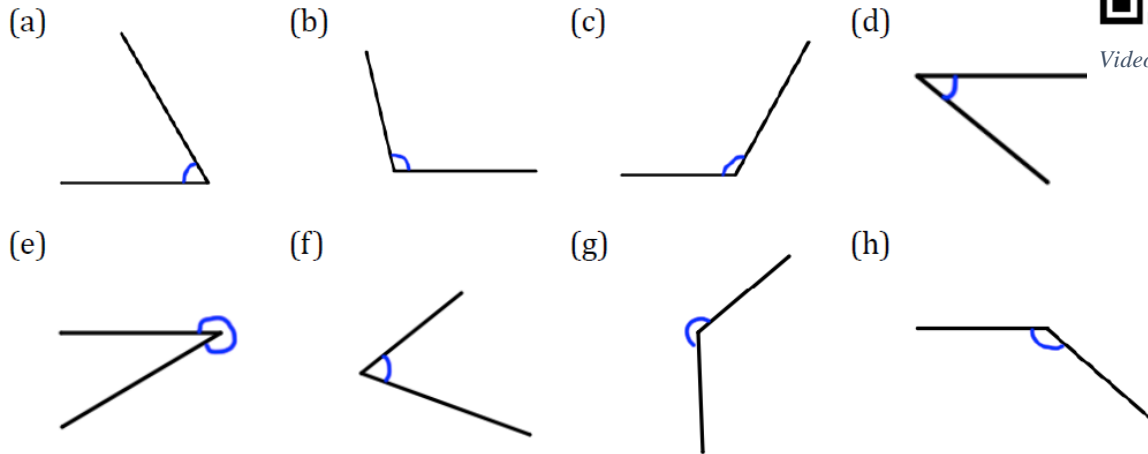


*Video 2 - Types of Triangle*

# Angles

## Types of angles

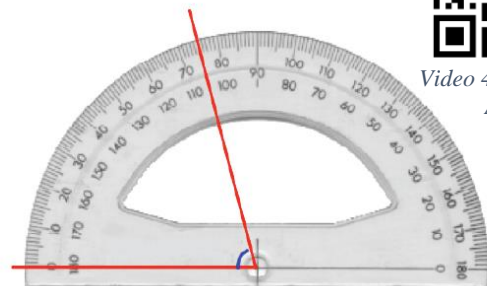
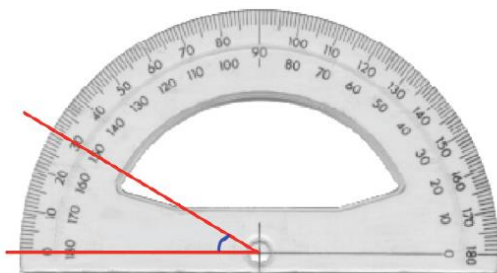
Question 1: Write down if each angle below is acute, obtuse or reflex.



Video 3 - Types of Angles

## Measuring angles

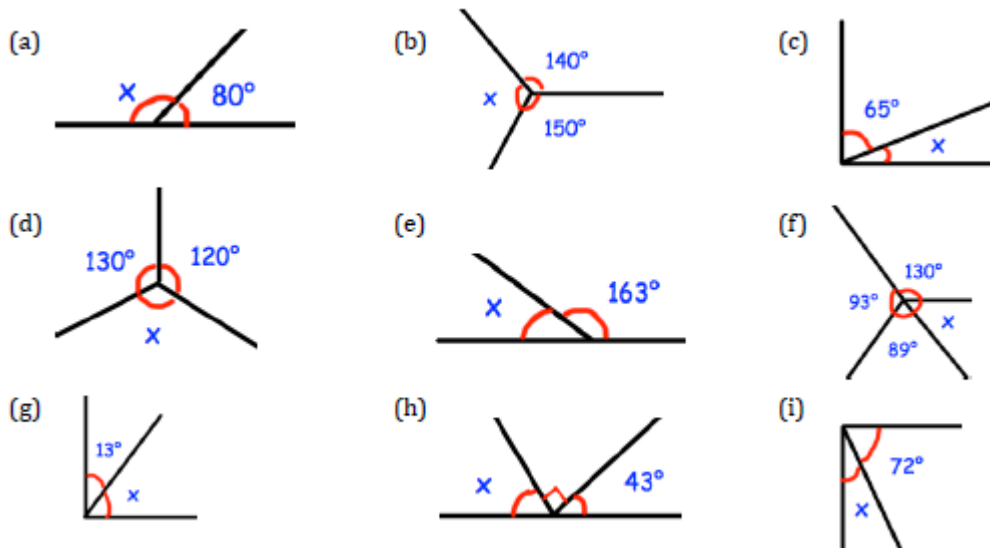
Question 1: Write down the size of each angle being measured (a) (b)



Video 4 - Measuring Angles

## Calculating angles

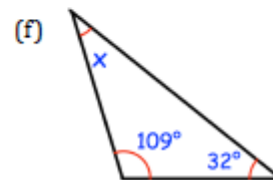
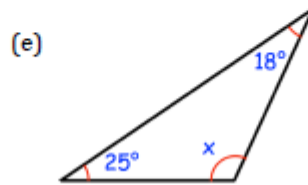
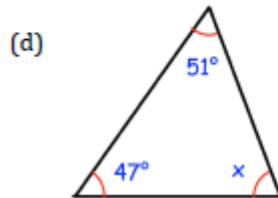
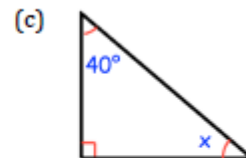
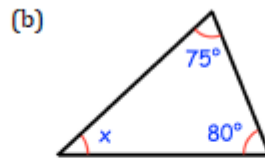
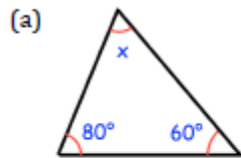
Question 5: Calculate the size of the missing angles



Video 5 - Calculating Angles

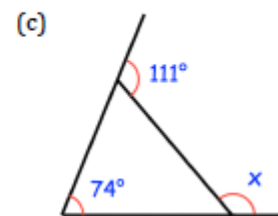
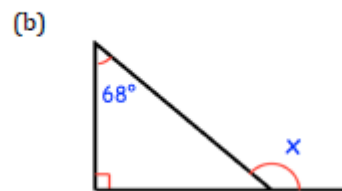
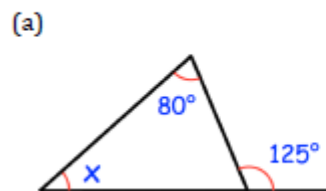
## Angle sum of triangle

Question 1: Find the size of each missing angle.



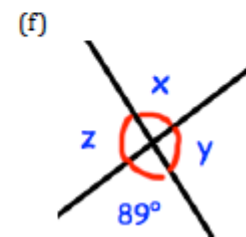
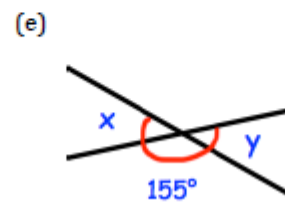
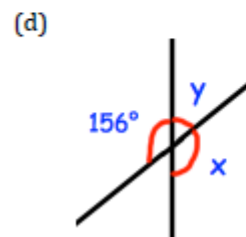
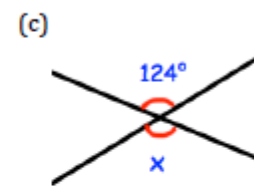
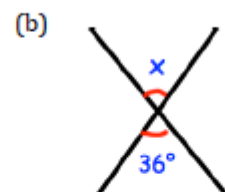
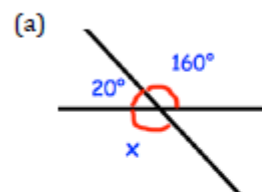
Video 6 - Angle Sum of Triangle

Question 4: Find the size of each missing angle.



## Vertically opposite angles

Question 4: Shown below are two straight lines that cross. Calculate the size of the missing angles

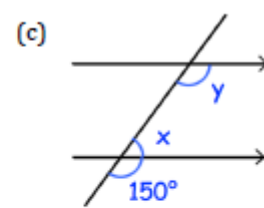
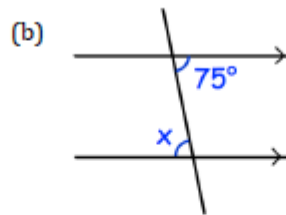
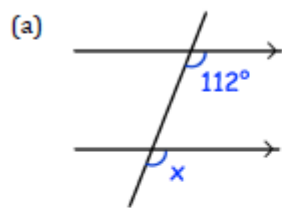


Video 7 - Vertically Opposite Angles

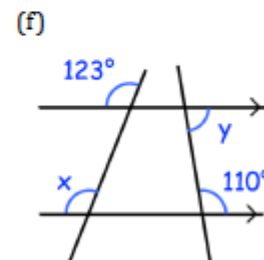
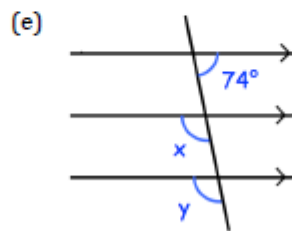
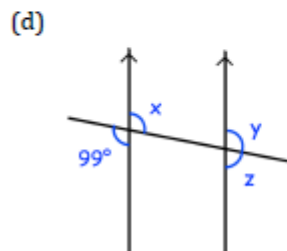
## Corresponding and Alternate Angles



Question 1: Write down the sizes of the lettered angles.



Video 8 - Corresponding and Alternate Angles



## Properties of Quadrilaterals

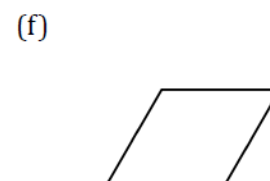
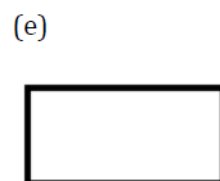
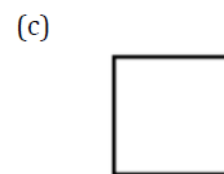
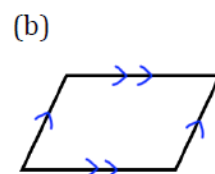
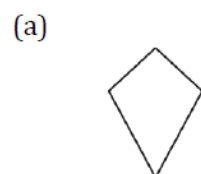
Question 1: Draw the following quadrilaterals

- (a) A kite                      (b) A rectangle                      (c) A square                      (d) A parallelogram  
 (e) A trapezium                      (f) A rhombus



Video 9 - Properties of Quadrilaterals

Question 2: Name each of the shapes below



Question 3: Draw all lines of symmetry on the quadrilaterals you have drawn in Question 1.

## Length & Area

### Units of length

Question 1: Convert the following lengths into centimetres (cm)

- (a) 4 m                      (b) 9 m                      (c) 12 m                      (d) 59 m



Video 10 - Units of Length

Question 2: Convert the following lengths into metres (m)

- (a) 300 cm                      (b) 700 cm                      (c) 900 cm                      (d) 1400 cm

Question 3: Convert the following lengths into centimetres (cm)

- (a) 60 mm                      (b) 30 mm                      (c) 65 mm                      (d) 87 mm

Question 4: Convert the following lengths into millimetres (mm)

- (a) 2 cm                      (b) 6 cm                      (c) 4.5 cm                      (d) 9.2 cm

Question 5: Convert the following lengths into metres (m)

- (a) 4 km                      (b) 9 km                      (c) 13 km                      (d) 28 km

Question 6: Convert the following lengths into kilometres (km)

- (a) 6000 m                      (b) 2000 m                      (c) 5500 m                      (d) 6400 m

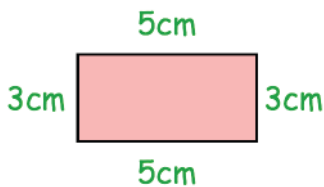
Question 7: Convert the following lengths

- (a) 2 m into mm                      (b) 8 m into mm                      (c) 6500 mm into m

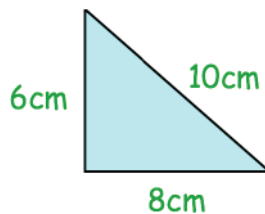
Perimeter

Question 1: Work out the perimeter of each shape below

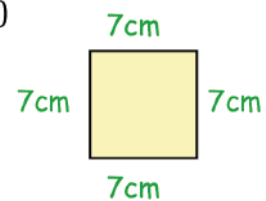
(a)



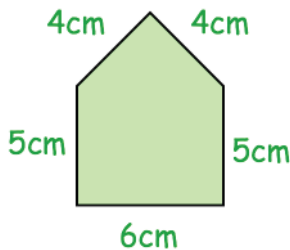
(b)



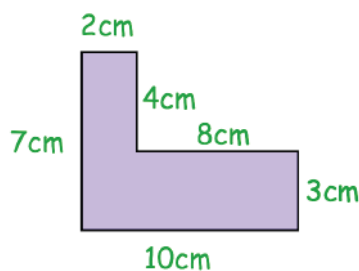
(c)



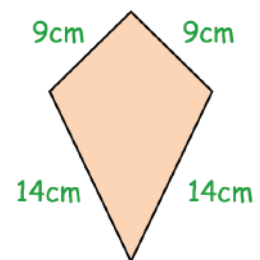
(d)



(e)



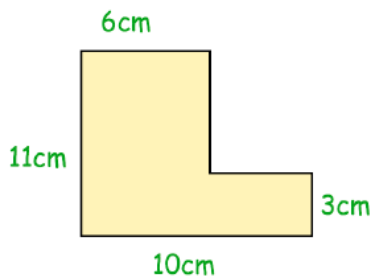
(f)



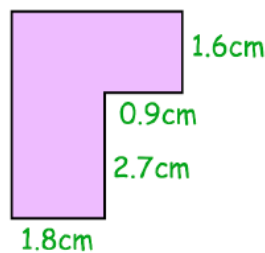
Video 11 -  
Perimeter

Question 7: Find the perimeter of each of these shapes

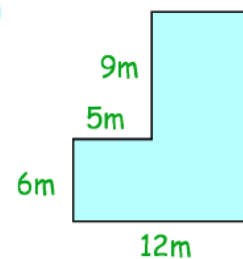
(a)



(b)



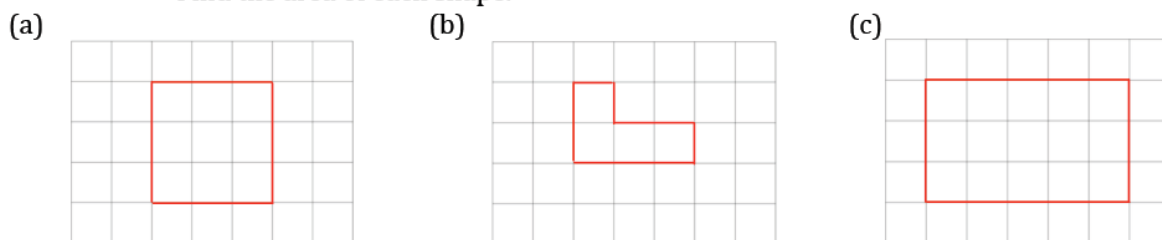
(c)





### Area

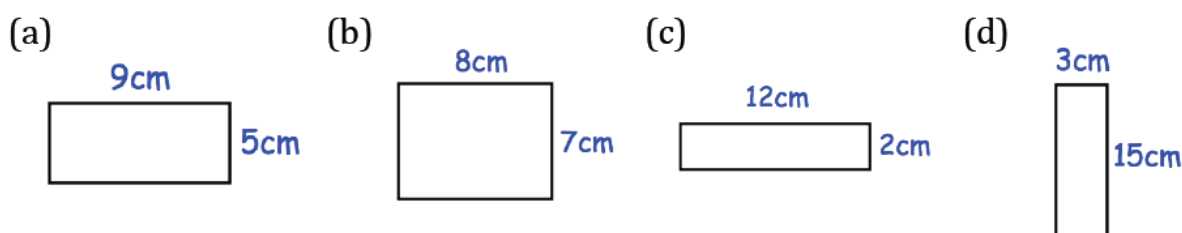
Question 1: The following shapes are drawn on centimetre-squared paper. Find the area of each shape.



Video 32 - Area

### Area of a rectangle

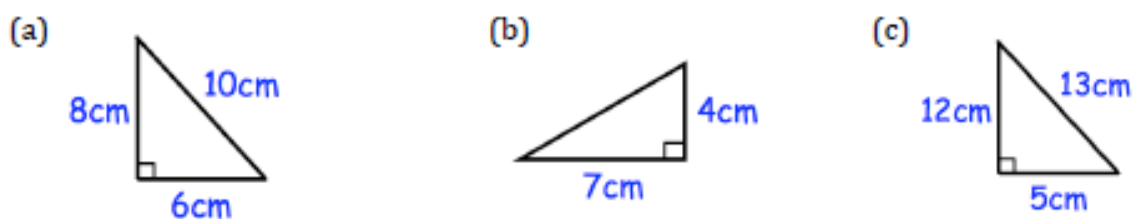
Question 1: Calculate the area of each of these rectangles



Video 13 - Area of a Rectangle

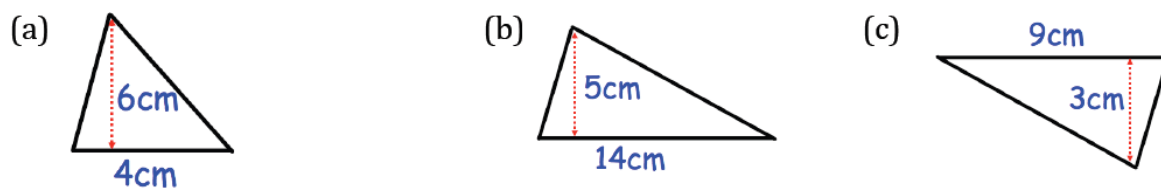
### Area of a triangle

Question 1: Find the area of each triangle.



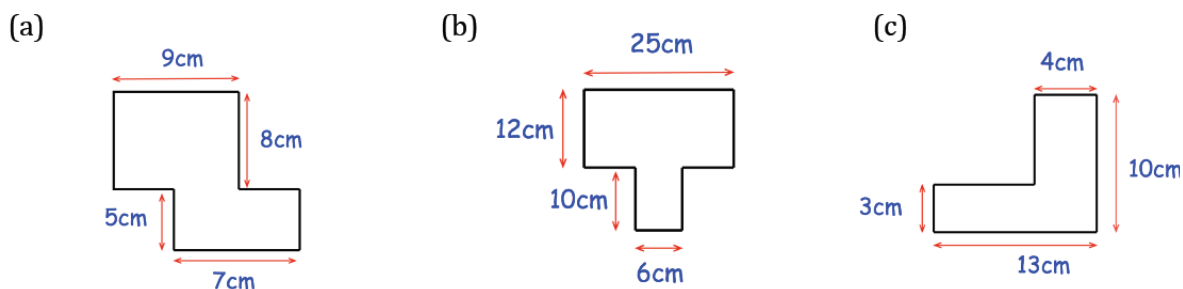
Video 14 - Area of a Rectangle

Question 2: Find the area of each triangle.



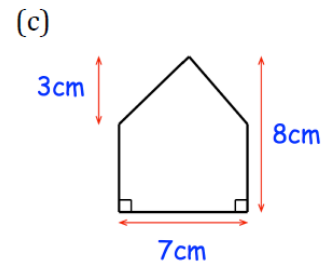
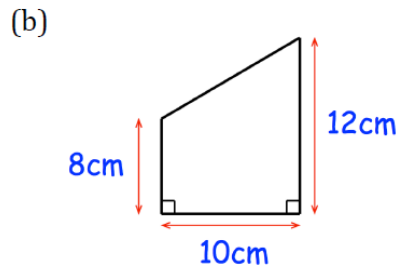
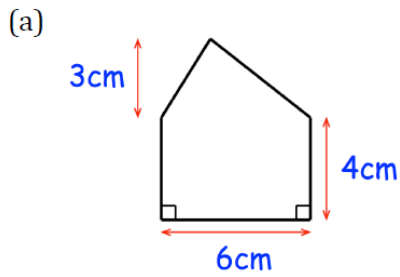
### Composite Areas

Question 1: Work out the area of each of these shapes.



Video 4 - Composite Areas

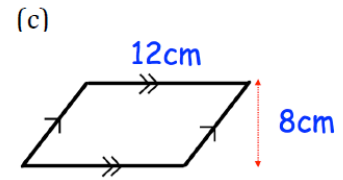
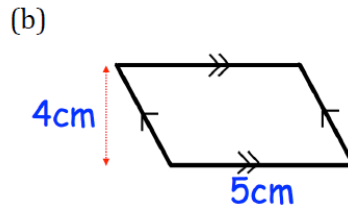
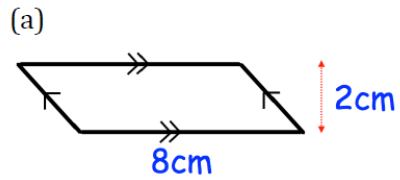
Question 3: Work out the area of each of these shapes.



## More Areas

### Parallelogram

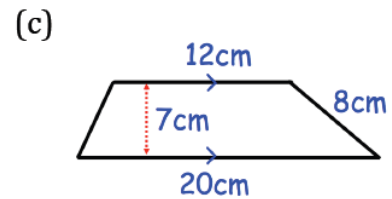
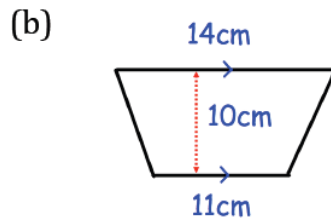
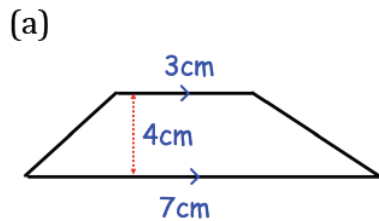
Question 2: Work out the area of each of the parallelograms below. Include suitable units.



Video 16 - Parallelogram

### Trapezium

Question 2: Find the area of each trapezium.



Video 5 - Trapezium



## Time

### Use of timetables

Question 2: Here is part of a timetable for a bus

Southville	09 20	10 30	12 10
Leek	09 48	10 58	12 38
Milton	09 55	11 05	12 45
Newtown	10 10	11 20	13 00
Red Island	10 19	11 29	13 09
Sandville	10 45	11 55	13 35
Bakerstown	11 01	12 11	13 51

James catches the bus at 09:20 in Southville.

- (a) What time should the bus arrive in Milton?
- (b) How long does the journey from Southville to Milton take?

Willow arrives at the Red Island bus stop at 11:10  
She waits for the next bus to Bakerstown.

- (c) How many minutes should she wait?
- (d) At what time should Willow arrive at Bakerstown?
- (e) How long does the journey last?

Olivia lives in Leek and has a meeting in Newtown at 13:20

- (f) What time should Olivia catch the bus in Leek?



*Video 6 - Use of timetables*

Measuring times



*Video 7 - Measuring times*

Question 6: Ella finishes school at 3pm.  
The time on her watch is 14:13

How long is it until Ella finishes school?

Question 7: A television programme begins at 6:10pm.  
The programme ends at 7:05pm.

How long did the television programme last?

Question 8: James goes to a meeting that lasts 1 hour and 50 minutes.  
The clock shows the time the meeting ends.

What time did the meeting begin?

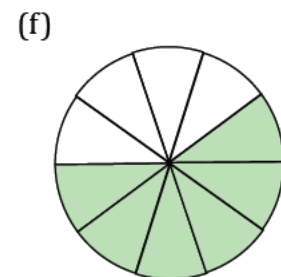
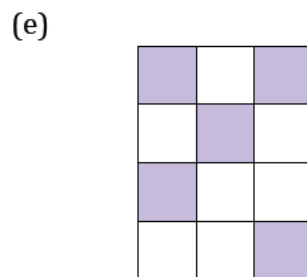
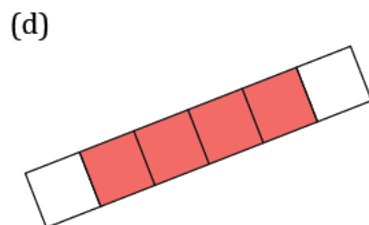
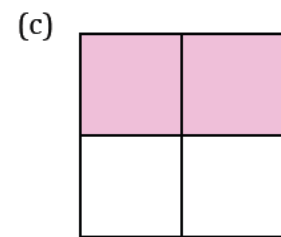
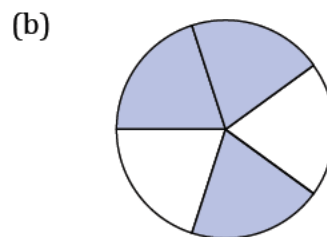
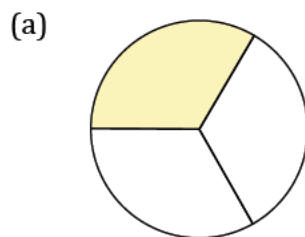


*Video 8 - Understanding Fractions*

**Fractions**

Understanding fractions

Question 3: Write down the fraction of each shape that is shaded.





Video 9 -  
Equivalent  
Fractions

Equivalent fractions

Question 1: Find the missing numbers

(a)  $\frac{2}{3} = \frac{\quad}{6}$

(b)  $\frac{1}{5} = \frac{\quad}{20}$

(c)  $\frac{3}{4} = \frac{\quad}{12}$

(d)  $\frac{5}{7} = \frac{10}{\quad}$

Question 2: Find the missing numbers

(a)  $\frac{6}{7} = \frac{42}{\quad}$

(b)  $\frac{9}{20} = \frac{63}{\quad}$

(c)  $\frac{5}{12} = \frac{35}{\quad}$

(d)  $\frac{7}{8} = \frac{\quad}{64}$



Video 10 -  
Simplifying  
Fractions

Simplifying fractions

Question 1: Simplify fully

(a)  $\frac{2}{4}$

(b)  $\frac{6}{9}$

(c)  $\frac{6}{8}$

(d)  $\frac{5}{15}$

(e)  $\frac{4}{6}$

(f)  $\frac{9}{12}$

Question 2: Cancel down each fraction to its simplest form

(a)  $\frac{14}{35}$

(b)  $\frac{8}{64}$

(c)  $\frac{18}{24}$

(d)  $\frac{75}{100}$

(e)  $\frac{24}{80}$

(f)  $\frac{6}{42}$

Fraction of a quantity

Question 1: Work out each of the following

(a)  $\frac{1}{2}$  of 10

(b)  $\frac{1}{3}$  of 18

(c)  $\frac{1}{5}$  of 20

(d)  $\frac{1}{4}$  of 24



Video 11 - Fraction  
of a Quantity

Question 2: Work out each of the following

(a)  $\frac{2}{3}$  of 15

(b)  $\frac{7}{10}$  of 20

(c)  $\frac{2}{5}$  of 30

(d)  $\frac{3}{4}$  of 32

Question 3: Work out each of the following.  
Include suitable units.

(a)  $\frac{1}{3}$  of £21

(b)  $\frac{3}{4}$  of 100kg

(c)  $\frac{2}{3}$  of 27cm

(d)  $\frac{7}{8}$  of 32 seconds

Question 7: The attendance at a Sheffield United match is 15,291

$\frac{2}{9}$  of the crowd are children.



How many adults attended the match?

Converting from Mixed Numbers to Improper Fractions (top heavy) and vice versa

Question 1: Change these improper fractions into mixed numbers

- (a)  $\frac{7}{3}$       (b)  $\frac{7}{5}$       (c)  $\frac{5}{2}$       (d)  $\frac{8}{7}$       (e)  $\frac{5}{3}$   
(f)  $\frac{10}{3}$       (g)  $\frac{23}{2}$       (h)  $\frac{11}{4}$       (i)  $\frac{11}{8}$       (j)  $\frac{9}{4}$

Question 2: Change these mixed numbers into improper fractions

- (a)  $2\frac{1}{5}$       (b)  $3\frac{1}{2}$       (c)  $1\frac{3}{4}$       (d)  $3\frac{2}{3}$       (e)  $1\frac{2}{5}$   
(f)  $2\frac{4}{7}$       (g)  $1\frac{1}{3}$       (h)  $2\frac{3}{10}$       (i)  $4\frac{3}{4}$       (j)  $1\frac{7}{12}$

Add and Subtract Fractions

Question 2: Work out the following additions

- (a)  $\frac{1}{5} + \frac{1}{5}$       (b)  $\frac{3}{11} + \frac{2}{11}$       (c)  $\frac{1}{9} + \frac{7}{9}$       (d)  $\frac{3}{7} + \frac{3}{7}$

Question 3: Work out the following subtractions

- (a)  $\frac{3}{5} - \frac{1}{5}$       (b)  $\frac{6}{7} - \frac{2}{7}$       (c)  $\frac{4}{5} - \frac{3}{5}$       (d)  $\frac{7}{13} - \frac{1}{13}$



Video 12 - Mixed  
Numbers and  
Improper Fractions



Video 13 -  
Add/Subtract  
Simple Fractions

Question 2: Work out the following additions.  
Give your answers as simplified fractions.  
If necessary, give any answers as mixed numbers.

(a)  $\frac{3}{4} + \frac{1}{2}$       (b)  $\frac{5}{9} + \frac{2}{3}$       (c)  $\frac{7}{10} + \frac{1}{3}$       (d)  $\frac{4}{5} + \frac{3}{4}$   
 (e)  $\frac{19}{20} + \frac{4}{5}$       (f)  $\frac{5}{9} + \frac{13}{18}$       (g)  $\frac{5}{12} + \frac{9}{10}$       (h)  $\frac{4}{7} + \frac{7}{8}$

Multiply and Divide Fractions

Question 1: Work out each of the following multiplications.  
Give each answer in its simplest form.

(a)  $\frac{1}{2} \times \frac{1}{5}$       (b)  $\frac{1}{2} \times \frac{3}{4}$       (c)  $\frac{1}{4} \times \frac{3}{5}$       (d)  $\frac{1}{3} \times \frac{1}{3}$

Question 3: Work out the following divisions.  
Give your answers as simplified fractions.  
If any answers are top heavy fractions, write as mixed numbers.

(a)  $1\frac{2}{3} \times \frac{1}{4}$       (b)  $\frac{2}{5} \times 1\frac{1}{4}$       (c)  $\frac{3}{4} \times 1\frac{1}{2}$       (d)  $2\frac{1}{2} \times \frac{7}{10}$

Question 1: Work out the following divisions.  
Give your answers as simplified fractions.  
If any answers are top heavy fractions, write as mixed numbers.

(a)  $\frac{1}{5} \div \frac{2}{3}$       (b)  $\frac{3}{4} \div \frac{4}{5}$       (c)  $\frac{1}{2} \div \frac{7}{8}$       (d)  $\frac{2}{3} \div \frac{5}{6}$

Question 3: Work out the following divisions.  
Give your answers as simplified fractions.  
If any answers are top heavy fractions, write as mixed numbers.

(a)  $\frac{2}{3} \div 1\frac{4}{5}$       (b)  $1\frac{1}{2} \div 1\frac{9}{10}$       (c)  $2\frac{3}{7} \div \frac{1}{2}$       (d)  $2\frac{1}{3} \div 5\frac{1}{2}$



Video 14 -  
Add/Subtract more  
difficult Fractions



Video 15 -  
Multiplying  
Fractions



Video 16 - Dividing  
Fractions

Percentages (non-calculator)

Question 1: Work out the following

- (a) 10% of 70m      (b) 25% of 16 seconds      (c) 10% of 400kg      (d) 50% of 26g  
(e) 75% of 40ml      (f) 1% of £300      (g) 25% of 36 days      (h) 50% of 9 days  
(i) 75% of 24p      (j) 25% of £18      (k) 1% of \$6300      (l) 10% of £7  
(m) 1% of 60m      (n) 75% of 8 miles      (o) 1% of 80kg      (p) 50% of 1.6km

Question 2: Work out the following

- (a) 20% of 30km      (b) 5% of £60      (c) 2% of 600m      (d) 30% of 70p  
(e) 3% of \$9000      (f) 40% of 75 seconds      (g) 15% of 90 hours      (h) 5% of 14kg  
(i) 60% of 30km      (j) 30% of £40      (k) 70% of 900cm      (l) 20% of 13cm  
(m) 11% of 420m      (n) 26% of 4000m      (o) 55% of £8      (p) 15% of 340kg

Question 1: A primary school has 212 students.  
50% of the students are boys.  
How many of the students are boys?

Percentages (Calculator allowed)

Question 1: Calculate the following

- (a) 15% of 80ml      (b) 9% of 205kg      (c) 45% of £135      (d) 17% of 540km  
(e) 53% of 700g      (f) 14% of 12 hours      (g) 31% of 280kg      (h) 6% of 4GB  
(i) 85% of 1250ml      (j) 66% of 9.4 miles      (k) 97% of \$54      (l) 13% of 0.5 tonnes

Question 2: Calculate the following

- (a) 2.5% of 60cm      (b) 7.2% of 104ml      (c) 24.5% of 30m      (d) 47.9% of £3200  
(e) 0.3% of 44km      (f) 85.2% of 6000 marks      (g) 0.25% of \$840      (h) 3.175% of 52g

Question 1: In year 9, there are 150 students  
16% of the students are left handed.

- (a) Work out how many students are left handed.  
(b) What percentage of the students are right handed?



*Video 29 -  
Percentages (non-  
calculator)*



*Video 30 -  
Percentages  
(calculator)*

## Percentage increase and decrease

### Question 1

- |                                |                          |                          |
|--------------------------------|--------------------------|--------------------------|
| (a) Increase 20 by 50%         | (b) Increase 60p by 10%  | (c) Increase 12g by 25%  |
| (d) Increase 400 litres by 20% | (e) Increase 32ml by 75% | (f) Increase 70m by 40%  |
| (g) Increase 9000 by 5%        | (h) Increase £7 by 20%   | (i) Increase 9kg by 100% |

### Question 3

- |                           |                            |                         |
|---------------------------|----------------------------|-------------------------|
| (a) Increase 80ml by 9%   | (b) Increase 420g by 70%   | (c) Decrease 8 by 12%   |
| (d) Decrease £1250 by 38% | (e) Increase 6000km by 23% | (f) Decrease 48GB by 6% |
| (g) Increase 204 by 98%   | (h) Decrease 149mm by 91%  | (i) Increase 88 by 185% |

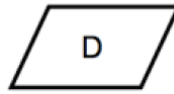
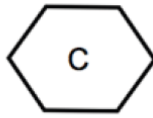
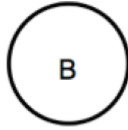
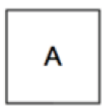


*Video 31 -  
Percentage  
increase and  
decrease*

## Answers

### 2D Shape

#### Common 2D Shapes



(a) Which shape is a circle?

Shape..... **B** .....  
(1)

(b) Which shape is a hexagon?

Shape..... **C** .....  
(1)

(c) Which shape is a square?

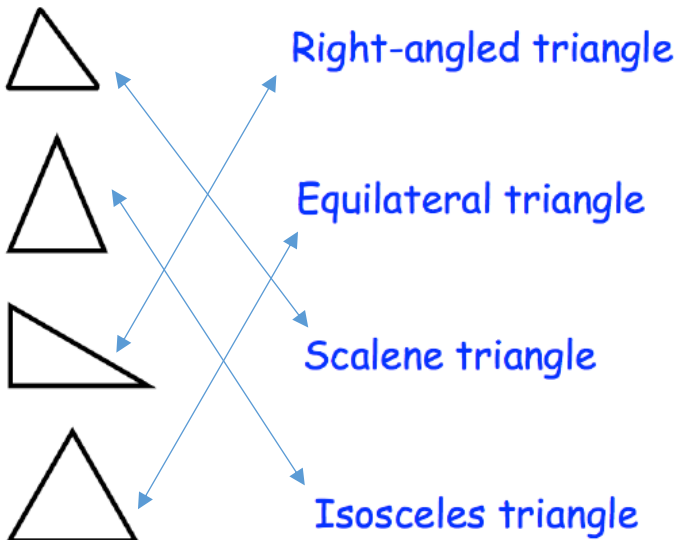
Shape..... **A** .....  
(1)

(d) Which shape is a parallelogram?

Shape..... **D** .....  
(1)

### Types of triangles

Match each triangle to the correct name.



### Angles

#### Types of angles

Question 1

- (a) Acute      (b) Obtuse      (c) Obtuse      (d) Acute  
(e) Reflex      (f) Acute      (g) Reflex      (h) Obtuse

#### Measuring angles

Question 1:

- (a)  $30^\circ$       (b)  $75^\circ$

#### Calculating angles

Question 5:

- (a)  $100^\circ$       (b)  $70^\circ$       (c)  $25^\circ$       (d)  $110^\circ$   
(e)  $17^\circ$       (f)  $48^\circ$       (g)  $77^\circ$       (h)  $47^\circ$   
(i)  $18^\circ$       (j)  $120^\circ$       (k)  $62^\circ$       (l)  $117^\circ$



## Angle sum of triangle

Question 1

- (a)  $40^\circ$                       (b)  $25^\circ$                       (c)  $50^\circ$   
(d)  $82^\circ$                       (e)  $137^\circ$                       (f)  $39^\circ$

Question 4

- (a)  $45^\circ$                       (b)  $158^\circ$                       (c)  $143^\circ$

## Vertically opposite angles

Question 4:

- (a)  $x = 160^\circ$                       (b)  $x = 36^\circ$                       (c)  $x = 124^\circ$   
(d)  $x = 156^\circ$  and  $y = 24^\circ$                       (e)  $x = 25^\circ$  and  $y = 25^\circ$   
(f)  $x = 89^\circ$      $y = 91^\circ$     and  $z = 91^\circ$

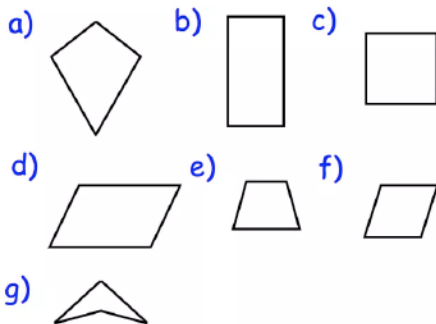
## Corresponding and Alternate Angles

Question 1:

- (a)  $x = 112^\circ$   
(b)  $x = 75^\circ$   
(c)  $x = 30^\circ$      $y = 150^\circ$   
(d)  $x = 99^\circ$      $y = 99^\circ$      $z = 81^\circ$   
(e)  $x = 106^\circ$      $y = 106^\circ$   
(f)  $x = 123^\circ$      $y = 70^\circ$

## Properties of Quadrilaterals

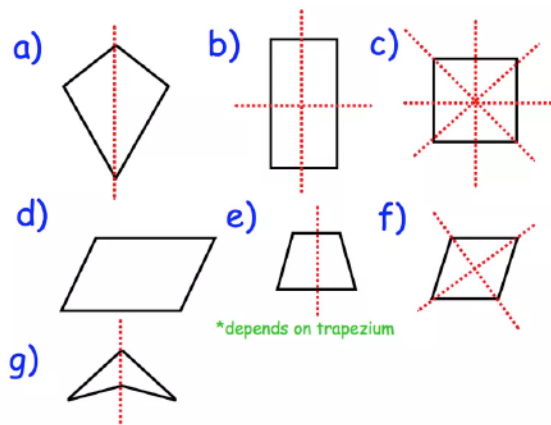
Workout - Question 1



Question 2

- (a) Kite                      (b) parallelogram                      (c) square                      (d) Trapezium  
(e) Rectangle                      (f) Rhombus

Question 3:



## Length & Area

### Units of length

Question 1: Convert the following lengths into centimetres (cm)

(a) 4 m  $400\text{cm}$  (b) 9 m  $900\text{cm}$  (c) 12 m  $1200\text{cm}$  (d) 59 m  $5900\text{cm}$

Question 2: Convert the following lengths into metres (m)

(a) 300 cm  $3\text{m}$  (b) 700 cm  $7\text{m}$  (c) 900 cm  $9\text{m}$  (d) 1400 cm  $14\text{m}$

Question 3: Convert the following lengths into centimetres (cm)

(a) 60 mm  $6\text{cm}$  (b) 30 mm  $3\text{cm}$  (c) 65 mm  $6.5\text{cm}$  (d) 87 mm  $8.7\text{cm}$

Question 4: Convert the following lengths into millimetres (mm)

(a) 2 cm  $20\text{mm}$  (b) 6 cm  $60\text{mm}$  (c) 4.5 cm  $45\text{mm}$  (d) 9.2 cm  $92\text{mm}$

Question 5: Convert the following lengths into metres (m)

(a) 4 km  $4000\text{m}$  (b) 9 km  $9000\text{m}$  (c) 13 km  $13000\text{m}$  (d) 28 km  $28000\text{m}$

Question 6: Convert the following lengths into kilometres (km)

(a) 6000 m  $6\text{km}$  (b) 2000 m  $2\text{km}$  (c) 5500 m  $5.5\text{km}$  (d) 6400 m  $6.4\text{km}$

Question 7: Convert the following lengths

(a) 2 m into mm  $2000\text{mm}$  (b) 8 m into mm  $8000\text{mm}$  (c) 6500 mm into m  $6.5\text{m}$

### Perimeter

Question 1

(a) 16cm (b) 24cm (c) 28cm

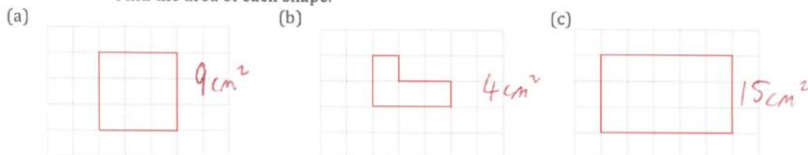
(d) 24cm (e) 34cm (f) 46cm

Question 7

(a) 42cm (b) 14cm (c) 54m

### Area

Question 1: The following shapes are drawn on centimetre-squared paper:  
Find the area of each shape.



### Area of a rectangle

Question 1

(a)  $45\text{cm}^2$  (b)  $56\text{cm}^2$  (c)  $24\text{cm}^2$  (d)  $45\text{cm}^2$

### Area of a triangle

Question 1

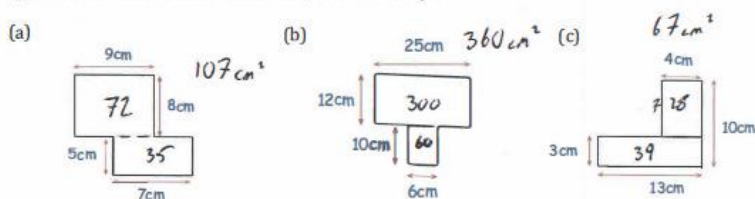
(a)  $24\text{cm}^2$  (b)  $14\text{cm}^2$  (c)  $30\text{cm}^2$

Question 2

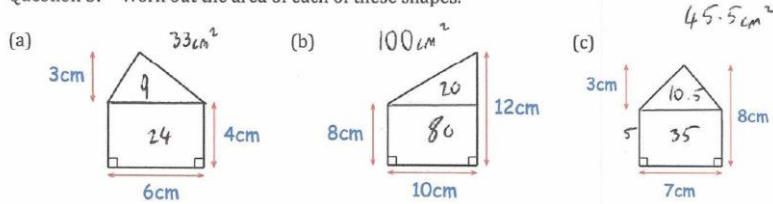
(a)  $12\text{cm}^2$  (b)  $35\text{cm}^2$  (c)  $13.5\text{cm}^2$

### Composite Areas

Question 1: Work out the area of each of these shapes.



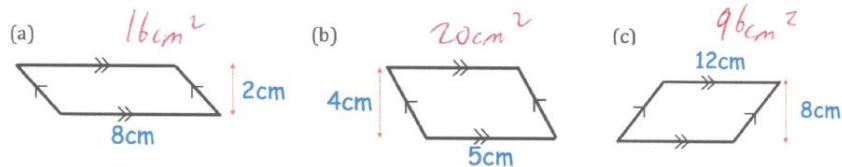
Question 3: Work out the area of each of these shapes.



## More Areas

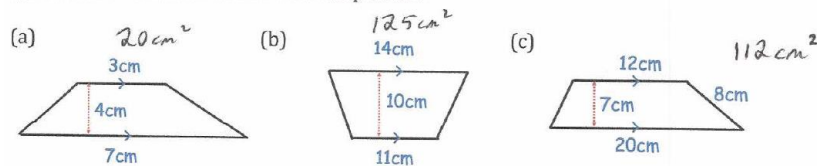
### Parallelogram

Question 2: Work out the area of each of the parallelograms below. Include suitable units.



### Trapezium

Question 2: Find the area of each trapezium.



## Time

### Use of timetables

Question 2:

- (a) 09:55 or 9.55am
- (b) 35 minutes
- (c) 19 minutes
- (d) 12:11 or 12.11pm
- (e) 42 minutes
- (f) 12:38 or 12.38pm

### Measuring times

Question 6: 47 minutes

Question 7: 55 minutes

Question 8: 11:55am

## Fractions

### Understanding fractions

Question 3:

- (a)  $\frac{1}{3}$
- (b)  $\frac{3}{5}$
- (c)  $\frac{1}{2}$
- (d)  $\frac{2}{3}$
- (e)  $\frac{5}{12}$
- (f)  $\frac{3}{5}$

### Equivalent fractions

Question 1: Find the missing numbers

- (a)  $\frac{2}{3} = \frac{4}{6}$
- (b)  $\frac{1}{5} = \frac{4}{20}$
- (c)  $\frac{3}{4} = \frac{9}{12}$
- (d)  $\frac{5}{7} = \frac{10}{14}$

Question 2: Find the missing numbers

(a)  $\frac{6}{7} = \frac{42}{49}$  (b)  $\frac{9}{20} = \frac{63}{140}$  (c)  $\frac{5}{12} = \frac{35}{84}$  (d)  $\frac{7}{8} = \frac{56}{64}$

### Simplifying fractions

Question 1: Simplify fully

(a)  $\frac{2}{4} \frac{1}{2}$  (b)  $\frac{6}{9} \frac{2}{3}$  (c)  $\frac{6}{8} \frac{3}{4}$  (d)  $\frac{5}{15} \frac{1}{3}$  (e)  $\frac{4}{6} \frac{2}{3}$  (f)  $\frac{9}{12} \frac{3}{4}$

Question 2: Cancel down each fraction to its simplest form

(a)  $\frac{14}{35} \frac{2}{5}$  (b)  $\frac{8}{64} \frac{1}{8}$  (c)  $\frac{18}{24} \frac{3}{4}$  (d)  $\frac{75}{100} \frac{3}{4}$  (e)  $\frac{24}{80} \frac{3}{10}$  (f)  $\frac{6}{42} \frac{1}{7}$

### Fraction of a quantity

Question 1:

(a) 5 (b) 6 (c) 4 (d) 6

Question 2:

(a) 10 (b) 14 (c) 12 (d) 24

Question 3:

(a) £7 (b) 75kg (c) 18cm (d) 28 seconds

Question 7: 11893

### Converting from Mixed Numbers to Improper Fractions(top heavy) and vice versa

Question 1:

(a)  $2\frac{1}{3}$  (b)  $1\frac{2}{5}$  (c)  $2\frac{1}{2}$  (d)  $1\frac{1}{7}$  (e)  $1\frac{2}{3}$   
(f)  $3\frac{1}{3}$  (g)  $11\frac{1}{2}$  (h)  $2\frac{3}{4}$  (i)  $1\frac{3}{8}$  (j)  $2\frac{1}{4}$

Question 2:

(a)  $\frac{11}{5}$  (b)  $\frac{7}{2}$  (c)  $\frac{7}{4}$  (d)  $\frac{11}{3}$  (e)  $\frac{7}{5}$   
(f)  $\frac{18}{7}$  (g)  $\frac{4}{3}$  (h)  $\frac{23}{10}$  (i)  $\frac{19}{4}$  (j)  $\frac{19}{12}$

### Add and Subtract Fractions

Question 2:

(a)  $\frac{2}{5}$  (b)  $\frac{5}{11}$  (c)  $\frac{8}{9}$  (d)  $\frac{6}{7}$

Question 3:

(a)  $\frac{2}{5}$  (b)  $\frac{4}{7}$  (c)  $\frac{1}{5}$  (d)  $\frac{6}{13}$

Question 2:

(a)  $1\frac{1}{4}$  (b)  $1\frac{2}{9}$  (c)  $1\frac{1}{30}$  (d)  $1\frac{11}{20}$   
(e)  $1\frac{3}{4}$  (f)  $1\frac{5}{18}$  (g)  $1\frac{19}{60}$  (h)  $1\frac{25}{56}$

## Multiplying and Dividing Fractions

Question 1:

(a)  $\frac{1}{10}$

(b)  $\frac{3}{8}$

(c)  $\frac{3}{20}$

(d)  $\frac{1}{9}$

Question 3:

(a)  $\frac{5}{12}$

(b)  $\frac{1}{2}$

(c)  $1\frac{1}{8}$

(d)  $1\frac{3}{4}$

Question 1:

(a)  $\frac{3}{10}$

(b)  $\frac{15}{16}$

(c)  $\frac{4}{7}$

(d)  $\frac{4}{5}$

Question 3:

(a)  $\frac{10}{27}$

(b)  $\frac{15}{19}$

(c)  $4\frac{6}{7}$

(d)  $\frac{14}{33}$

## Percentages (non-calc)

Question 1

(a) 7m

(b) 4 seconds

(c) 40kg

(d) 13g

(e) 30ml

(f) £3

(g) 9 days

(h) 4.5 days

(i) 18p

(j) £4.5

(k) \$63

(l) 70p

(m) 60cm

(n) 6 miles

(o) 800g

(p) 0.8km

Question 2:

(a) 6km

(b) £3

(c) 12m

(d) 21p

(e) \$270

(f) 30 seconds

(g) 13.5 hours

(h) 700g

(i) 18km

(j) £12

(k) 630cm

(l) 2.6cm

(m) 46.2m

(n) 1040m

(o) £4.40

(p) 51kg

Question 1:

106 boys

## Percentages (Calc)

Question 1

(a) 12ml

(b) 18.45kg

(c) £60.75

(d) 91.8km

(e) 371g

(f) 1.68 hours

(g) 86.8kg

(h) 0.24GB

(i) 1062.5ml

(j) 6.204 miles

(k) \$52.38

(l) 0.065 tonnes

Question 2:

(a) 1.5cm

(b) 7.488ml

(c) 7.35m

(d) £1532.80

(e) 0.132km

(f) 5112 marks

(g) \$2.10

(h) 1.651g

Question 1

(a) 24 students

(b) 84%

## Percentage increase and decrease

Question 1:

(a) 30

(b) 66p

(c) 15g

(d) 480 litres

(e) 56ml

(f) 98m

(g) 9450

(h) £8.40

(i) 18kg

Question 3:

(a) 87.2ml

(b) 714g

(c) 7.04

(d) £775

(e) 7380km

(f) 45.12GB

(g) 403.92

(h) 13.41mm

(i) 250.8