

# Review Task

## Year 6

Mathletics

### Fractions, Decimals, Percentages:

Calculators are also handy for working out percentages. This is how we calculate 40% of 50:

We enter       Our answer appears

Use a calculator to find these percentages:








- a 20% of 300 mL =       b 35% of 280 mL =       c 15% of 800 kg =
- d 6% of 70 km =       e 25% of 150 mL =       f 9% of \$700 =
- g 15% of 400 =       h 18% of 300 mL =       i 90% of 1000 =

The answer is 75. Use a calculator to work out the percentages and tick all the squares that match the answer:





<input checked="" type="checkbox"/> What is 25% of 300?	<input checked="" type="checkbox"/> What is 75% of 100?	<input checked="" type="checkbox"/> What is 10% of 750?	<input type="checkbox"/> What is 15% of 55?
<input type="checkbox"/> What is 45% of 180?	<input type="checkbox"/> What is 35% of 300?	<input checked="" type="checkbox"/> What is 50% of 150?	<input checked="" type="checkbox"/> What is 20% of 375?

### Addition and Subtraction:

It is important to eat healthy foods that are low in fat and sugar. This table shows nutritional information of some common foods:

	 Bowl of coco flakes	 Bowl of wheat puffs	 Meat pie	 Salad sandwich	 Cola drink	 Fruit juice	 Milkshake
Total fat	1.2 g	0.7 g	33.8 g	9.3 g	0 g	0 g	12 g
Sugars	28.3 g	1.6 g	12.3 g	5.4 g	30 g	4.9 g	61 g

a How healthy are the children listed in the table below? Calculate the total amount of fat and sugar consumed by each child for breakfast and recess:

	Breakfast	Lunch	Total fat	Total sugar
Sam 	Bowl of coco flakes	Meat pie and cola drink	$1.2\text{ g} + 33.8\text{ g}$ $= 35\text{ g}$	$28.3\text{ g} + 12.3\text{ g} + 30\text{ g}$ $= 70.6\text{ g}$
Nate 	Bowl of wheat puffs	Meat pie and a milkshake	$0.7\text{ g} + 33.8\text{ g} + 12\text{ g}$ $= 46.5\text{ g}$	$1.6\text{ g} + 12.3\text{ g} + 61\text{ g}$ $= 74.9\text{ g}$
Wil 	Bowl of coco flakes	Salad sandwich and cola drink	$1.2\text{ g} + 9.3\text{ g} + 0\text{ g}$ $= 10.5\text{ g}$	$28.3\text{ g} + 5.4\text{ g} + 30\text{ g}$ $= 63.7\text{ g}$
Trey 	Bowl of wheat puffs	Salad sandwich and fruit juice	$0.7\text{ g} + 9.3\text{ g} + 0\text{ g}$ $= 10\text{ g}$	$1.6\text{ g} + 5.4\text{ g} + 4.9\text{ g}$ $= 11.9\text{ g}$

b Draw a smiley face next to the healthiest child.

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### Multiplication and Division:

As we know, multiplication and division are inverse operations.  
This means they do the reverse of each other:

$$8 \times 9 = 72$$

$$72 \div 9 = 8$$

We can use our knowledge of the times tables to help us answer division questions.

Complete these fact families:

a  $8 \times \boxed{3} = 24$

$$24 \div 8 = \boxed{3}$$

b  $8 \times \boxed{4} = 32$

$$32 \div 8 = \boxed{4}$$

c  $7 \times \boxed{6} = 42$

$$42 \div 7 = \boxed{6}$$

d  $9 \times \boxed{3} = 27$

$$27 \div 9 = \boxed{3}$$

e  $5 \times \boxed{5} = 25$

$$25 \div 5 = \boxed{5}$$

f  $8 \times \boxed{12} = 96$

$$96 \div 8 = \boxed{12}$$

Use your knowledge of multiplication to help you mentally solve these problems. Some will have remainders.

a  $36 \div 3 = \boxed{12}$

b  $63 \div 7 = \boxed{9}$

c  $121 \div 11 = \boxed{11}$

d  $120 \div 10 = \boxed{12}$

e  $25 \div 6 = \boxed{4 \text{ r } 1}$

f  $37 \div 8 = \boxed{4 \text{ r } 5}$

g  $68 \div 11 = \boxed{6 \text{ r } 2}$

h  $113 \div 12 = \boxed{9 \text{ r } 5}$

What do we do when there are remainders? We have to guess, check and improve.

$$27 \div 5 = ?$$

$$5 \times 6 = 30 \text{ Too high}$$

$$4 \times 5 = 20 \text{ Too low, there are 7 left over}$$

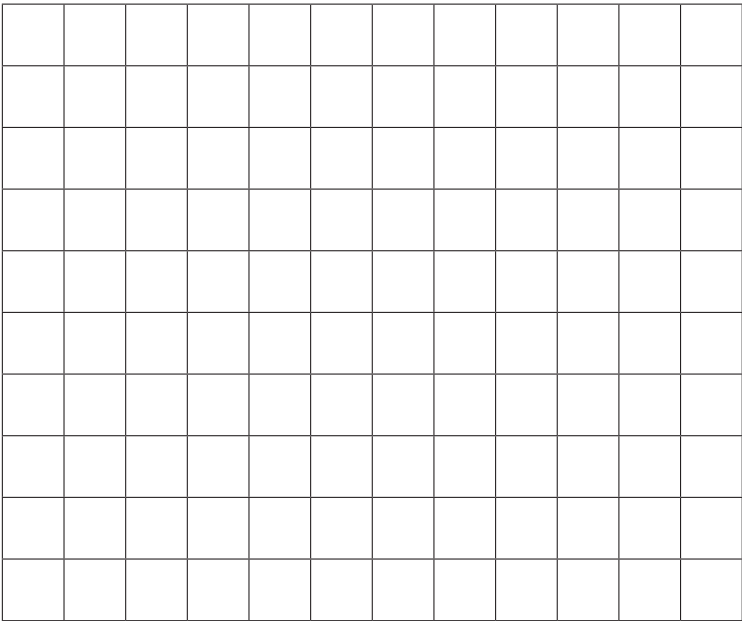
$$5 \times 5 = 25 \text{ There are 2 left over so } 27 \div 5 = 5 \text{ r } 2$$

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### Length, Perimeter and Area:

How many different shapes can you make that have an area of 6 cm<sup>2</sup>?



Teacher check.

Do you need to use whole squares? How could you make an area of 6 cm<sup>2</sup> using part squares?



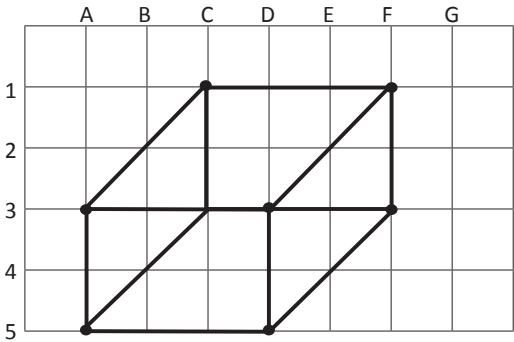
THINK

Choose another area and see how many of those shapes you can make.

### Position:

Plot these points and then connect them to make a 3D shape. Use a ruler.

- |          |          |
|----------|----------|
| F1 to C1 | F1 to D3 |
| C1 to A3 | D3 to D5 |
| A3 to A5 | C1 to C3 |
| A5 to D5 | A3 to F3 |
| D5 to F3 | C3 to A5 |
| F3 to F1 |          |



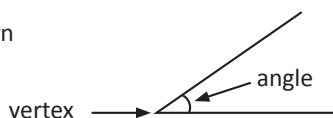
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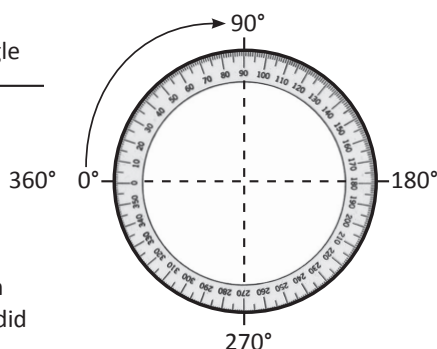
Mathletics

### Geometry:

An angle is the amount of turn between the intersection of two rays (lines).


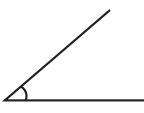
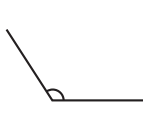
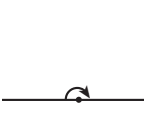




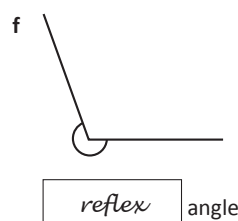
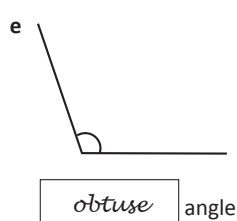
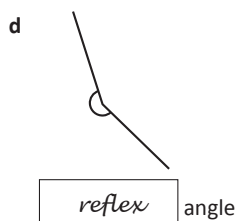
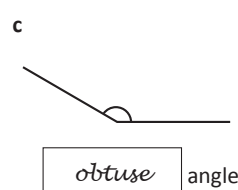
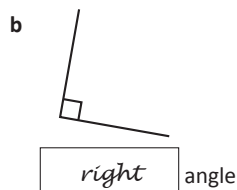
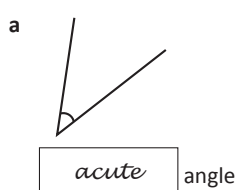
Angles are conventionally measured in degrees on a protractor.  $360^\circ$  is a full turn,  $180^\circ$  is a half turn, and  $90^\circ$  is a quarter turn.



Have you heard someone say, "He did a complete  $180^\circ$  on that."? What do you think they meant? What does, "She did a full  $360^\circ$ " mean?

Complete the table and use the information to help you to classify the angles below. Use a maths dictionary to help you work out any unknown terms.

					
right angles are <u><math>90^\circ</math></u>	acute angles are <u>less</u> than $90^\circ$	obtuse angles are <u>more</u> than $90^\circ$ and less than <u><math>180^\circ</math></u>	straight angles are exactly <u><math>180^\circ</math></u>	reflex angles are greater than $180^\circ$ and less than <u><math>360^\circ</math></u>	revolution angles are exactly <u><math>360^\circ</math></u>



Make sure you check which angle you're meant to be measuring! The little arc tells you here.

