# Mathletics

## Holiday Review - Year Six

### Fractions, Decimals, Percentages:

Calculators are also handy for working out percentages. This is how we calculate 40% of 50: We enter 5 7 x 4 7 96 Our answer appears 2 7Use a calculator to find these percentages: a 20% of 300 mL = b 35% of 280 mL = c 15% of 800 kg = d d 6% of 70 km = e 25% of 150 mL = f 9% of \$700 = d g 15% of 400 = h 18% of 300 mL = i 90% of 1000 = d

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

What is	What is	What is	What is
25% of 300?	75% of 100?	10% of 750?	15% of 55?
What is	What is	What is 50% of 150?	What is
45% of 180?	35% of 300?		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		
Nate	Bowl of wheat puffs	Meat pie and a milkshake		
wil	Bowl of coco flakes	Salad sandwich and cola drink		
Trey	Bowl of wheat puffs	Salad sandwich and fruit juice		

**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:

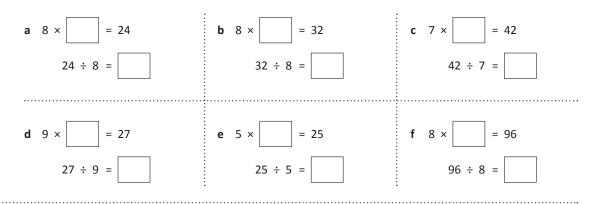
8 × 9 = 72 72 ÷ 9 = 8

What do we do when there are

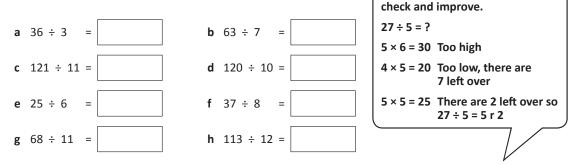
remainders? We have to guess,

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

#### Complete these fact families:



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

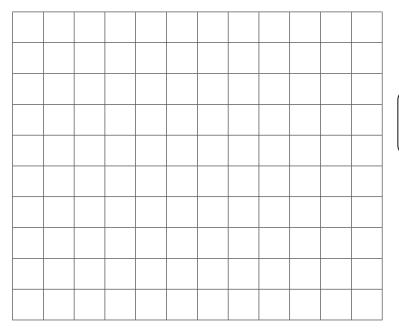


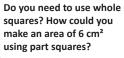
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## Length, Perimeter and Area:

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





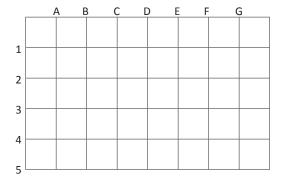


Choose another area and see how many of those shapes you can make.

### **Position:**

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

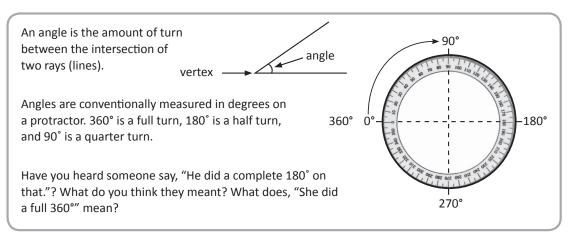
F1 to C1	F1 to D3
C1 to A3	D3 to D5
A3 to A5	C1 to C3
A5 to D5	A3 to F3
D5 to F3	C3 to A5
F3 to F1	



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#### Geometry:



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.

