Topic Test 2 (20 minutes)
Basic algebra - Foundation

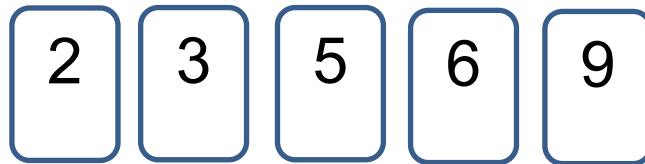**1** Work out the value of $40 - 2 \times 3^2$

[1 mark]

Answer _____

2 Sunita has these cards:

| 2 | 3 | 5 | 6 | 9 |

Choose **four** numbers from the cards to make the following calculation correct:

[1 mark]

$$\left(\boxed{} + \boxed{} \right) \div \boxed{} \times \boxed{} = 21$$

3 Simplify $5 \times 3 \times f \times f \times f \times g \times g$

[2 marks]

_____

_____

Answer _____

4 Mr Mistry has 3 grandchildren.

He gives Nimisha £m.

He gives Sunhil £80 less than Nimisha.

He gives Akshay twice as much as Sunhil.

Write down an expression for the total amount of money he gives them.

[3 marks]

Answer £ _____

5 Multiply out $5(2a - 7)$

[2 marks]

Answer _____

AQA Education (AQA) is a registered charity (number 1073334) and a company limited by guarantee register
England and Wales (number 3644723). Our registered address is AQA, Devas Street, Manchester M15 6EX.

2 of 4

6   Expand and simplify

6 (a) $2(3h + 6) + 5(4h + 2)$

[3 marks]

Answer _____

6 (b) $6(3j - 2) - 4(2j + 4)$

[3 marks]

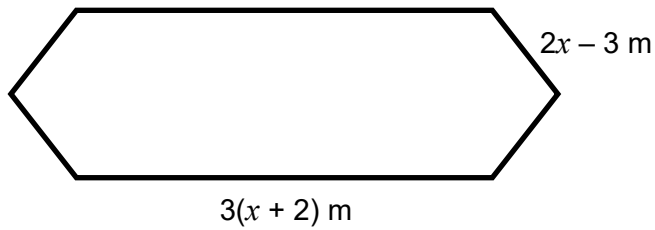Answer _____

7   Sam wants to build a water play area for children.

He wants the shape to have **two** lines of symmetry.

$2x - 3$ m

$3(x + 2)$ m

Work out an expression for the total perimeter of the shape.

[4 marks]

Answer _____ m

END OF QUESTIONS