

**1** A solid object has 5 faces, 9 edges, and 6 vertices. Which of the following could it be?

- A Triangular prism      B Rectangular pyramid      C Pentagonal prism      D Hexagonal pyramid

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**2** A school is organising a trip to the zoo for 432 students.

The students will be split into equal groups, with each group assigned to one teacher.

If each group has 24 students, how many teachers will be needed for the trip?

- A 18                      B 9                      C 27                      D 36

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**3** Liam is helping his dad build a patio in their garden.

The patio requires 77 paving slabs in total.

Liam's dad can carry 7 paving slabs at a time from the front of the house to the back garden.

What is the minimum number of trips Liam's dad will need to make to transport all the paving slabs?

- A 11                      B 10                      C 12                      D 14

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**4** On a coordinate grid, Liam plots a quadrilateral with the following vertices:  $(2, 5)$ ,  $(-5, 5)$ ,  $(-5, -2)$ , and  $(2, -2)$ .

What type of quadrilateral has Liam plotted?

- A A rhombus      B A square      C A rectangle      D A parallelogram

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**5** Tom had £5.20 when he went to the toy shop.

After buying a new toy car, he had £1.95 left.

How much did the toy car cost?

- A £3.25                      B £4.15                      C £2.35                      D £7.15

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**6** Amelia has  $\pounds x$  in her piggy bank.  
Her brother Oliver has three times as much money as Amelia.  
Their cousin Sophia has  $\pounds 5$  more than Oliver.  
Which of the following expressions represents the total amount of money the three children have?

A  $7x + 5$                       B  $3x + 5$                       C  $4x - 5$                       D  $6x + 5$

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**7** What is the name of a three-dimensional shape that has six square faces of equal size?

A Cube      B Rectangular prism      C Triangular prism      D Square-based pyramid

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**8** Harry is packing sweets into party bags for his birthday party.  
Each party bag will contain 5 sweets.  
Harry has a large bag that contains 75 sweets in total.  
After filling the party bags, Harry has 10 sweets left over.  
How many party bags did Harry fill?

A 13                      B 7                      C 10                      D 15

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**9** Liam earns  $\pounds 850$  from his part-time job in April,  $\pounds 420$  in May, and  $\pounds 600$  in June. He doesn't spend any of this money.  
At the end of June, Liam's employer decides to give him a bonus of  $\pounds 7.50$  for every  $\pounds 500$  he earned since the beginning of April.  
What will be the total amount of money Liam has by the end of June, including his bonus?

A  $\pounds 1870$                       B  $\pounds 1892.50$                       C  $\pounds 1877.50$                       D  $\pounds 1898.50$

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**10** Liam is baking cookies for a school fundraiser. He has already made 24 chocolate chip cookies and 18 oatmeal raisin cookies.  
If he needs to bake a total of 60 cookies, how many more cookies does he need to make?

A 18 cookies                      B 42 cookies                      C 36 cookies                      D 12 cookies

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