Day 341 **C Tier 10-a-day: Model Solutions**

1 Writing expressions

A pen costs p pence.
Write an expression for the cost, in pence, of 4 pens.

4 pens cost 4 × p pence
Answer: 4p

2 Money: wages

Femi earns £10 for each hour of work.
Femi works for 8 hours.
How much does Femi earn?

£10 × 8 = £80
Answer: £80

3 Naming quadrilaterals

Write down the name of the quadrilateral that has exactly one line of symmetry and no parallel sides.

The quadrilateral with exactly one line of symmetry and no parallel sides is a kite
Answer: kite

4 Collecting like terms

Simplify x + x + x

All the terms are in x, so just add or subtract the numbers in front of x
Answer: 3x

5 Scatter graphs

Here is a scatter graph of test mark against hours of revision.
Describe the correlation.

As hours of revision increases, test mark also increases
This is positive correlation
Answer: Positive correlation

6 24-hour clock

Write 17:30 using am or pm.

Subtract 12 from the hour for times after 12:00
Answer: 5:30 pm

7 Tally charts

The tally chart shows the favourite colour of some children.
How many more children for Green than for Pink?

Green: 10 Pink: 5
10 − 5 = 5
Answer: 5

8 Cost from perimeter

A rectangular garden is 16 m long and 10 m wide.
Fencing costs £6 per metre.
Work out the cost of putting fence all the way round the garden.

Perimeter = 16 + 10 + 16 + 10 = 52 m
Cost = 52 × £6 = £312
Answer: £312

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9 Division with remainders

30 stickers are shared equally between 4 children.
(a) How many does each child get?
(b) How many are left over?

30 ÷ 4 = 7 remainder 2
Answer: (a) 7 (b) 2

10 Travel graphs

The graph shows a journey. Sam cycles from home to a shop and then back home.
(a) How far from home is the shop?
(b) For how many hours did the journey stop at the shop?

(a) The highest point of the graph is 10 km
(b) The graph is flat from 1 to 3 hours: 2 hours
Answer: (a) 10 km (b) 2 hours