Year 6
Ratio and proportion   Test 4(E)
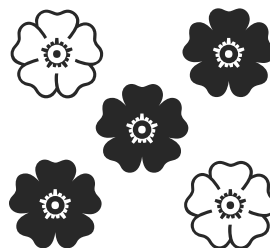
Name: _____ Class: _____ Date: _____

1. Sumita plants rows of flowers in this pattern.

    Complete the statement she makes.

    a) Sumita says, 'I need ⬚ white flowers for every ⬚
    coloured flowers.'

    1 mark

    b) When she has finished, she has used 40 white flowers.
    How many flowers did Sumita plant in total?

    flowers

    1 mark

2. Find 85% of 540.

    1 mark

    Total for this page

3. Tomas, Billy and Jayden play a computer game.

Tomas scores 220 out of 400.

Billy scores 116 out of 200.

Jayden scores 162 out of 300.

Who had the best percentage score?

2 marks

4. There are 40 chocolates in a box.

There are five milk chocolates to every three plain chocolates.

How many milk chocolates are in the box?

chocolates

2 marks

5. A rectangle is 170 mm long and 74 mm wide.

The rectangle is enlarged by a scale factor of 50.

What will the length and width of the enlarged rectangle be?

Length: _____ mm   Width: _____ mm

1 mark

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this page

6.   A plan of a house is made to the scale of 1:50.

The house is 10 metres wide in real life.

How wide is the house on the plan in centimetres?

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cm
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1 mark

7.   Dervla has a bag of 20 beads.

Eight of the beads are red; the rest are blue.

a) What fraction of the beads is red?

Give your answer in its simplest form.

1 mark

b) What is the ratio of red beads to blue beads?

Give your answer in its simplest form.

1 mark

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this page

8. A drink is made using orange juice, lemonade and lime juice in the ratio of 4:7:2.

If 350 ml of lemonade is used, how much drink will there be in total?

ml

2 marks

9. One evening Harpreet spends 150 minutes watching television and 120 minutes doing her homework.

a) Write the time she spends watching television and the time she spends doing her homework as a ratio in its lowest terms.

1 mark

b) What fraction of her time did Harpreet spend doing her homework?
Give your answer in its simplest terms.

1 mark

/15

Total for this test