SECTION 1

1 Addition, subtraction, multiplication and division

Exercise 1.1

1 Calculate:

a 62 + 18 = ... **b** 24 + 36 = ... **c** 17 + 73 = ...

d 68 – 23 = ... **e** 54 – 31 = ... **f** 73 – 25 = ...

2 Ben is going on a bike ride. He starts in Brighton and cycles 32 miles to Chichester. From Chichester, he then cycles 17 miles to Portsmouth.

a What is the total distance Ben cycles?

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b Ben then cycles all the way home from Portsmouth back to Brighton, cycling the same route he went on the way there. What is his total distance?

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3 Work out:

a 121 + 59 = ... **b** 263 + 27 = ... **c** 15 + 235 = ...

d 42 – (–28) = ... **e** 73 – (–137) = ... **f** –86 – (–46) = ...

4 A jug contains 720 ml of lemonade. When filled, each glass holds 200 ml of lemonade.

a How many glasses can be filled?

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b How much lemonade is left in the jug?

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5 A sunflower grows 12 cm every fortnight. The sunflower has a current height of 53 cm. Calculate how many weeks until the sunflower is over 100 cm tall.

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6 A bus can carry a total of 65 passengers. At the first stop 17 people get on the bus.

a How many more passengers can the bus carry after the first stop?

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b Throughout the trip, the bus picks up a total of 52 passengers. How many passengers were picked up after the first stop?

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Exercises 1.2–1.3

1 Work out:

a $210 \times 8 =$ ..... **b** $15 \times 40 =$ ..... **c** $120 \times 60 =$ .....

d $35 \times 20 =$ ..... **e** $3200 \times 5 =$ ..... **f** $85 \times 600 =$ .....

2 Work out:

a $136 \div 8 =$ ..... **b** $4200 \div 6 =$ ..... **c** $640 \div 80 =$ .....

d $120 \div 40 =$ ..... **e** $480 \div 4 =$ ..... **f** $7200 \div 60 =$ .....

3 William owns a bakery and each week he sells 24 loaves of bread. How many loaves of bread does he sell in 6 weeks?

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4 In a field there are 40 sheep, 12 horses and 25 chickens. How many legs are in the field?

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5 On an aeroplane there are 215 seats. In each row there are 2 seats on one side of the aisle and 3 seats on the other side. How many rows are there in total?

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6 Calculate:

a $-13 \times 5 =$ ..... **b** $-22 \times -15 =$ ..... **c** $-540 \div 60 =$ .....

d $-125 \times 8 =$ ..... **e** $7200 \div -9 =$ .....

7 Fill in the missing values from the multiplication table below.

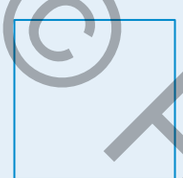
×	−12	.....	180
−7	.....	−210	.....
−25	.....	.....	.....

2 Properties of two-dimensional shapes

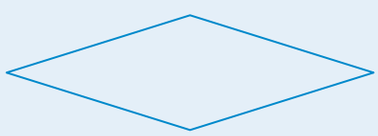
Exercises 2.1–2.3

1 Give the name of each shape and then draw all the lines of reflection symmetry on these shapes.

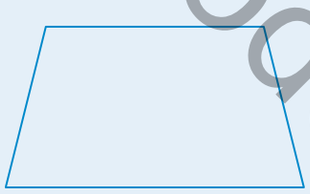
a Name: .....



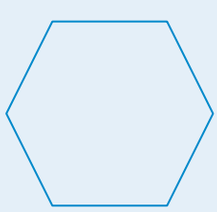
b Name: .....



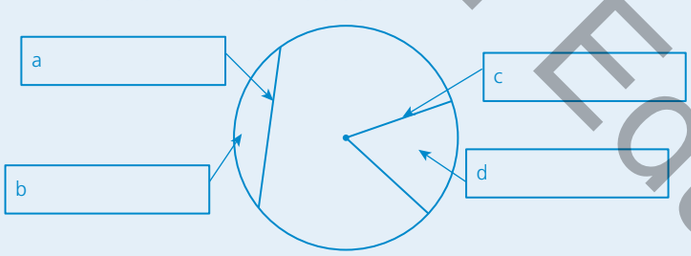
c Name: .....



d Name: .....



2 Fill in the labels on the circle below.



3 Here are three quadrilaterals.

Square

Rectangle

Parallelogram

a If the parallelogram is the odd one out, give a reason why this is the case.

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b If the square is the odd one out, give a reason why this is the case.

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9781398301269.indb 5 05/03/21 12:11 AM

4 Here are three quadrilaterals.

To help classify them, give two properties they all have in common.

i) .....

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ii) .....

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5 Draw two straight lines inside the rectangle opposite to split it into a square and two right-angled triangles.

6 Draw one straight line inside the rectangle opposite to split it into a trapezium and a right-angled triangle.

7 **a** Is a square a type of rectangle?

☐ Yes ☐ No

Give reasons for your answer.

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b Is a rectangle a type of square?

☐ Yes ☐ No

Give reasons for your answer.

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