1 Jack has £400

He spends **35%** of his money on a new bike.

How much does Jack spend on his new bike?

£

1 mark

2 Hassan scores 40 out of 80 in a test.

Kate scores 40% in the same test.

Who has the higher score?

Circle **Hassan** or **Kate**.

Hassan / Kate

Explain how you know.

1 mark

3 20% of the children in a sports club play tennis.

25% of the children who play tennis **also** play rounders.

There are 8 children in the club who play **both** tennis and rounders.

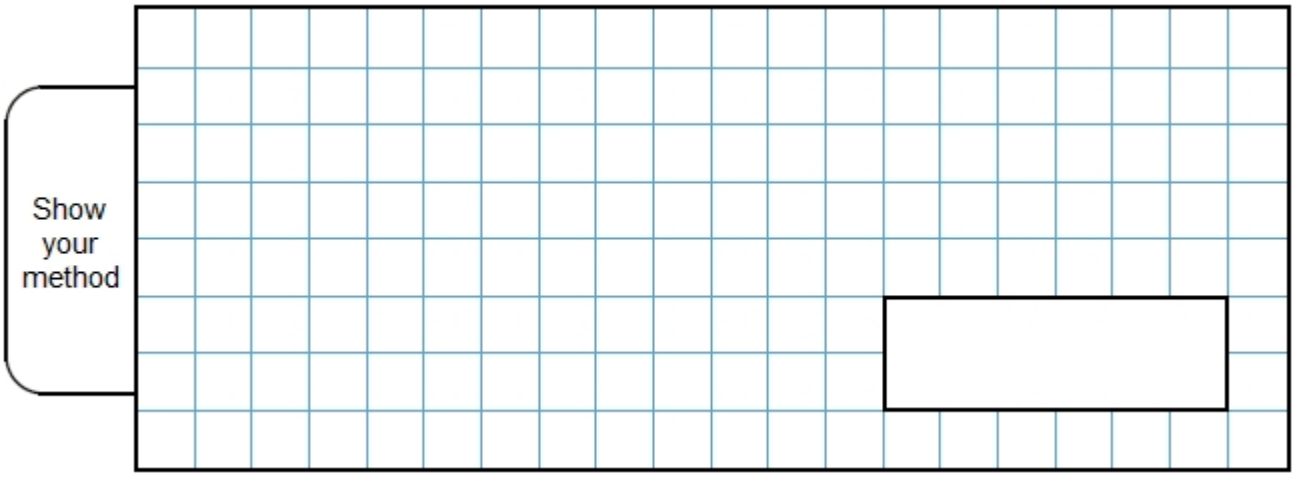
How many children are there in the sports club **altogether**?

Show your method

2 marks

4 **20%** of Megan's number is **64**

What is **50%** of Megan's number?



2 marks

5 Write in the missing numbers.

30% of 60 is ☐

1 mark

30% of ☐ is 60

1 mark

6 Calculate 55% of 640

☐

1 mark

Mark schemes

1 £140

***Do not** accept 140%*

[1]

2 An explanation which correctly compares two percentages or two scores, eg:

- '40 out of 80 is 50%'
- '50% is more than 40%'
- '40% of 80 is 32'
- '40 out of 80 is better than 40 out of 100'
- '40 out of 80 is more than 32 out of 80'
- 'Kate has less than half marks'.

No mark is awarded for circling 'Hassan' alone.

***Do not** accept vague or incomplete explanations, eg:*

- *'Hassan has half marks'*
- *'Percentages are bigger'*
- *'Hassan has more than 40%'*
- *'Kate has less than 40 out of 80'.*

If 'Kate' is circled but a correct unambiguous explanation is given, then award the mark.

U1

[1]

3 160

2

or

32 seen (*number who play tennis*)

***Do not accept** 32% seen*

OR

Shows or implies a complete correct method, eg:

- 8 × 4 × 5
- 25% of tennis is 8
  8 × 4 = 24 (*error*)
  tennis is 20% of sports club
  24 × 5 = 120

1

[2]

4 Award **TWO** marks for the correct answer of 160

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

- 64 ÷ 2 = 32

  64 + 64 + 32 = wrong answer

OR

- 64 × 5 = 320

  320 ÷ 2 = wrong answer

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2
U1

[2]

5 (a) 18

***Do not** accept 18%*

1

(b) 200

***Do not** accept 200%*

*If the answer for part (a) is 18% **AND** the answer for (b) is 200%, award*
***ONE** mark only in the part (b) box.*

1

[2]

6 352

***Do not** accept 352%*

[1]