

HEARTHPREP

13+ Maths Practice Paper

Past Paper — Practice

Time allowed: 60 minutes

Total marks: 50

Questions: 5

INSTRUCTIONS

- Answer ALL questions.
- Show your working where required — marks may be awarded for method.
- Write your answers clearly in the spaces provided.
- You may NOT use a calculator unless stated otherwise.
- Check your work if you finish early.

1. Express $0.3\overline{6}$ ($0.3666\dots$) as a fraction in its simplest form.

[3 marks]

Answer:

Working:

2. The sum of three consecutive odd numbers is 87. What is the largest of the three numbers?

[3 marks]

Answer:

Working:

3. A cube has surface area 294 cm^2 . What is its volume?

[3 marks]

- ☐ A 343 cm^3
- ☐ B 216 cm^3
- ☐ C 512 cm^3
- ☐ D 125 cm^3

4. Solve the simultaneous equations:

[4 marks]

$$2x + 3y = 16$$

$$5x - 3y = 5$$

Answer:

Working:

5. A train travels at 90 km/h . A car travels at 75 km/h . Both start from the same point at the same time travelling in the same direction. After how many minutes will they be 5 km apart? [3 marks]

Answer:

Working: