

Name _____

Date _____

Stage 7 End-of-unit test 4 — mark scheme

23 questions · 37 marks · calculators are not allowed · allow about 45 minutes

- 1 Write these in order of size, smallest first: 8.9, 14.639, 6.45 [1]

Answer: 6.45, 8.9, 14.639

Compare the whole-number parts: 6, 8, 14.

- 2 Write these in order of size, smallest first: 2.82, 2.6, 2.816 [2]

Answer: 2.6, 2.816, 2.82All have 2 units. Tenths: 6 is smallest. Then compare hundredths: $1 < 2$.

- 3 Which is bigger, 0.089 or 0.09? [1]

☐ 0.089☐ 0.09**Answer: 0.09**

0.090 has 9 hundredths; 0.089 has only 8.

- 4 Work out $2.3 + 7.8$. [1]

Answer: 10.1 $9 + 1.1 = 10.1$.

- 5 Work out $13.3 - 5.8$. [1]

Answer: 7.5 $13.3 - 6 + 0.2 = 7.5$.

- 6 Work out $20 - 12.83$. [2]

Answer: 7.17

Write 20 as 20.00, then subtract: 7.17.

- 7 Work out 0.002×4 . [1]

Answer: 0.008 $2 \times 4 = 8$, and three decimal places in the question, so 0.008.

- 8 Work out 30×0.06 . [1]

Answer: 1.8 $30 \times 6 = 180$, two decimal places, so 1.8.

- 9 Work out 476×3.7 . [2]

Answer: 1761.2 $476 \times 37 = 17\,612$, one decimal place, so 1761.2.

- 10 Work out $8.4 \div 4$. [1]

Answer: 2.1

Keep the point in line: 2.1.

- 11 Work out $7 \div 4$. [2]

Answer: 1.75

$$7.00 \div 4 = 1.75.$$

- 12 Work out $8.46 \div 7$, giving your answer to 2 decimal places. [2]

Answer: 1.21

$$1.208... \text{ rounds to } 1.21.$$

- 13 Work out 0.06×3500 using an easier method. [2]

Answer: 210

$$6 \times (3500 \div 100) = 6 \times 35 = 210.$$

- 14 Work out 8.2×9 using an easier method. [2]

Answer: 73.8

$$8.2 \times 10 - 8.2 = 73.8.$$

- 15 Work out $12.56 \div 40$ using an easier method. [2]

Answer: 0.314

$$12.56 \div 4 \div 10 = 0.314.$$

- 16 At the cinema Priya spends \$4.75, \$1.75 and \$0.85. What is her total spending, in dollars? [2]

Answer: 7.35

$$\$7.35.$$

- 17 Priya pays with a \$10 note. How much change does she get, in dollars? [2]

Answer: 2.65

$$10 - 7.35 = \$2.65.$$

- 18 Jed has pipes of 1.8 m, 3.5 m, 2.45 m and 0.85 m. What is the total length, in metres? [2]

Answer: 8.6

$$8.6 \text{ m.}$$

- 19 Jed needs 10 m of pipe altogether. How much more must he buy, in metres? [2]

Answer: 1.4

$$10 - 8.6 = 1.4 \text{ m.}$$

- 20 A pen costs \$1.25. How much do 6 pens cost, in dollars? [2]

Answer: 7.5

$$\$7.50.$$

- 21 Four friends share \$50 equally. How much each, to the nearest cent? Give the number of dollars. [2]

Answer: 12.5

$$50 \div 4 = 12.5, \text{ so } \$12.50 \text{ exactly.}$$

- 22 Zara says $0.5 \times 0.5 = 2.5$. Is she correct? [1]

☐ Yes

☐ No

Answer: No

$$5 \times 5 = 25 \text{ with two decimal places, so the answer is } 0.25.$$

23 Is 1.80 the same number as 1.8? [1]

☐ Yes

☐ No

Answer: Yes

A zero at the end of a decimal does not change its value.

Total: 37 marks