Multiple-choice section

Question 1 [4.1]

The missing number in the equation 0.34 = is:

A 3.4 B 4 C 34 D 3

Question 2 [4.1]



The arrow points to the number:

A 0.6 B 1.6 C 1.16 D 1.06

Question 3 [4.3]

 when rounded to 2 decimal places is:

A 0.13 B 0.18 C 0.12 D 0.11

Question 4 [4.2]

Which of the following cannot be rounded to 3.68? 

A 3.684 B 3.688 C 3.679 D 3.675

Question 5 [4.3]

5.25 as a fraction in simplest form is:

A  B  C  D 

Question 6 [4.4]

Which of these calculations gives an answer closest to 1?

A 0.36 + 0.62 B 0.49 + 0.41 C 1.3 – 0.29 D 1.2 – 0.3

Question 7 [4.5]

Calculate: 2.4 × 0.2

A 0.48 B 1.2 C 4.8 D 48

Question 8 [4.7]

0.46 written as a percentage is:

A  B 46% C 4.6% D 

Question 9 [4.8]

Which of the following calculations will find 20% of $40.

A  B  C  D 

Question 10 [4.8]

Amanda has collected 6 of the 24 dolls in a set. What percentage does she need to complete the set?

A 6.24% B 24% C 25% D 75%

Question 11 [4.9]

Sam has four birds, two dogs and three cats as pets. What is the ratio of dogs to birds?

A 2 : 3 B 4 : 3 C 1 : 2 D 4 : 2

Question 12 [4.10]

If 20 dogs eat 15 kg of mince, how much mince would 12 dogs eat?

A 9 kg B 7.8 kg C 7.5 kg D 1.5 kg

Multiple-choice total marks: \_\_\_\_ / 12

Short answer section

Question 13 3 marks [4.3, 4.9]

Use words from the list below to complete the following sentences

*add multiply recurring ratio subtract rate terminating*

(a) To write a fraction as a decimal, you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the numerator by the denominator.

(b) A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ decimal is one that has a repeating pattern of digits.

(c) A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a comparison of two or more quantities using a ‘:’ symbol.

Question 14 3 marks [4.1]

On the number line below draw arrow to indicate the position of

(a) 3.25 (b) 3.17 (c) 3.01

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Question 15 2 marks [4.1]

Write the following as decimals.

(a) 4 tens, 3 tenths and 6 thousandths

(b) 

Question 16 3 marks [4.1]

Place a greater than (>) or less than (<) symbol to make each of the following statements true.

(a) 506 \_\_\_\_\_\_ 50.6

(b) 0.0345 \_\_\_\_\_\_ 0.030 45

(c) 4.567 \_\_\_\_\_\_\_ 4.5671

Question 17 2 marks [4.1]

Write the following in ascending order.

(a) 3.21, 3.12, 3.021 (b) 0.050 74, 0.0574, 0.005 74

Question 18 3 marks [4.2, 4.4]

Daniel bought a toothbrush for $1.67 and paid in cash.

(a) How much would he actually have to pay for the toothbrush?

(b) How much change would he get from $5?

Question 19 3 marks [4.2]

Round the following to the number of decimal places indicated in the brackets.

(a) 45.657 (1) (b) 0.4734 (2) (c) 1.3758 (3)

Question 20 7 marks [4.7]

Complete the table.

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percentage |
|  | 0.1 | 10% |
|  |  |  |
|  |  | 25% |
|  |  | 20% |
|  | 0.125 |  |
|  |  |  |
|  | 0.333… |  |
|  |  | 7.5% |

Question 21 2 marks [4.3]

Write the following using recurring decimal notation.

(a) 0.555… (b) 3.565 656…

Question 22 4 marks [4.4]

Calculate the following.

(a) 6 + 0.007 + 1.236 (b) 2.34 + 0.576

Question 23 4 marks [4.4]

Calculate the following.

(a) 1.365 – 0.234 (b) 23.4 – 6.751

Question 24 3 marks [4.5]

Calculate the following.

(a) 35.78 × 100 (b) 0.034 × 7 (c) 12.5 × 300

Question 25 4 marks [4.5]

Calculate the following.

(a) 0.4 × 0.7 (b) 0.56 × 0.03

Question 26 6 marks [4.6]

Calculate the following.

(a) 36.63 ÷ 10 000 (b) 2.4 ÷ 8 (c) 0.0566 ÷ 4

Question 27 4 marks [4.6]

Calculate the following.

(a) 7.2 ÷ 90 (b) 4.5 ÷ 0.09

Question 28 4 marks [4.8]

(a) Find 5% of 140. (b) Find 9% of 160.

Question 29 2 marks [4.8]

Marco received 32 marks out of 40 in his spelling test. What percentage was this?

Question 30 4 marks [4.9]

Complete the equivalent ratios.

|  |  |
| --- | --- |
| (a) 3 : 5  = 12 : \_\_\_  = \_\_\_ : 10 | (b) 1 : 5 : 7  = \_\_\_ : \_\_\_ : 35 |

Question 31 4 marks [4.10]

(a) If it costs $4200 to pave a courtyard that has an area of 60 square metres, how much does it cost to pave a courtyard that is 12 square metres in area?

(b) If it takes 2.5 minutes to fill a 6 L bucket, how long will it take to fill a 2 L bucket? Write your answer in seconds.

Short answer total: \_\_\_\_\_\_\_\_\_ / 67

Extended answer section

Question 32 9 marks [4.4, 4.5, 4.6, 4.8, 4.9]

(a) Anita is a 100 m hurdler. In her last three races her times have been 16.34 seconds, 16.06 seconds and 16.19 seconds. If her fourth race was 0.13 seconds faster than her fastest time, what was her time for the race?

(b) Her coach wanted to calculate Anita’s average time for her past four races, so he added up the times and divided by 4. What was the average time he calculated?

(c) As part of her training, Anita needs to eat 10 700 kilojoules daily, which is broken up into serves. She is to have three serves for breakfast, one serve for morning tea, two serves for lunch and one serve each for afternoon tea and dinner. How many kilojoules should Anita eat at breakfast?

(d) What is the ratio of Anita’s breakfast intake to her lunch intake? Write your answer in simplest form.

(e) On days that Anita does not train, she has 75% of the kilojoule intake for training days. What is her daily kilojoule intake on these days?

Question 33 9 marks [4.5, 4.6, 4.7]

Maggie looked up a recipe for a pastry and was given the following ingredients:

300 g flour

150 g butter

3 tablespoons of water

(a) What is the ratio (in simplest form) of flour to butter?

(b) What fraction of the ingredients (not including the water) is the flour?

(c) Maggie decided to use 450g of flour. How much butter and water should she use?

(d) Maggie went to the supermarket and saw the following unit pricing:

100 g flour $0.10

100 g butter $0.56

100 g pastry (ready-made) $0.40

(i) Choose a quantity of pastry to make and calculate how much Maggie would save by buying the flour and butter and making it herself instead of buying the pastry ready-made.

(ii) What is the saving as a percentage of the ready made pastry cost?

Extended answer total: \_\_\_\_\_\_\_\_\_ / 18

TOTAL test marks: \_\_\_\_\_\_\_ / 97