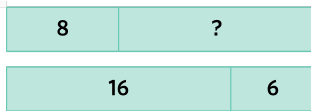


Chapter 1 Test: Whole numbers

MULTIPLE CHOICE (15 marks)

Question 1

What is the missing value in the bar model?



- A.** 8 **B.** 12 **C.** 14 **D.** 18

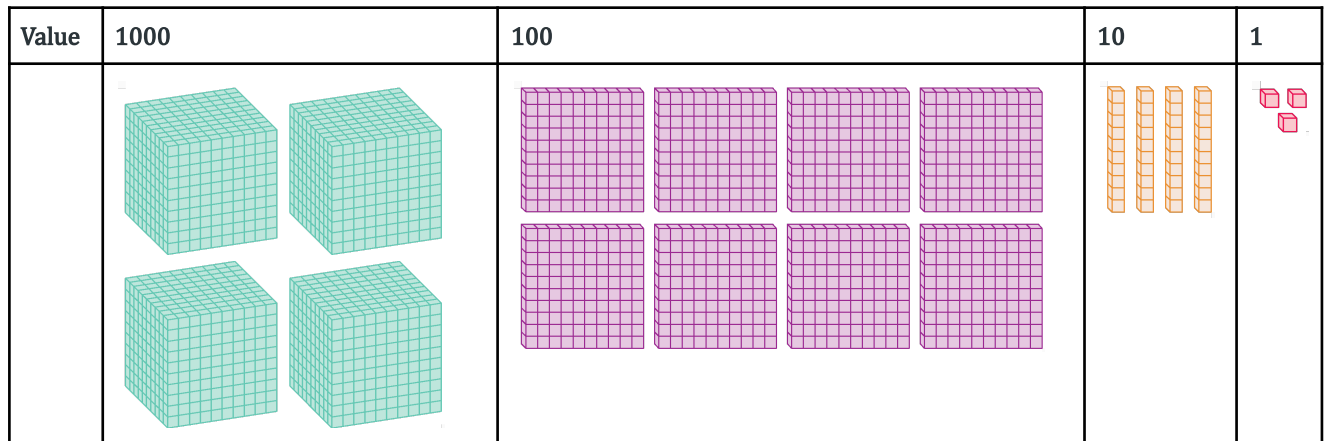
Question 2

Sophie has \$720 in her bank account. She decides to get a haircut, which costs \$140. What is the balance in Sophie’s bank account after paying for her haircut?

- A.** \$580 **B.** \$660 **C.** \$680 **D.** \$860

Question 3

Determine the number shown in the place value chart.



- A.** 4843 **B.** 4943 **C.** 40 843 **D.** 48 043

Question 4

Evaluate $54\,000 \div 1000$.

- A.** 54 000 000 **B.** 54 000 **C.** 540 **D.** 54

Year 7 Mathematics – Chapter 3 Test: Fractions and ratios

Question 5

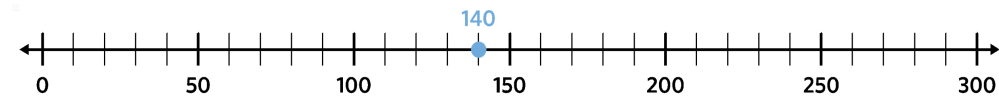
Evaluate the following expression using the order of operations.

$$(22 + 4 \times 11) \div 11 + (7 - 7)$$

- A. 4 B. 6 C. 19 D. 26
-

Question 6

Use the number line to round 140 to the nearest 100.



- A. 100 B. 140 C. 150 D. 200
-

Question 7

Evaluate 36×18 using the vertical algorithm.

- A. 288 B. 404 C. 648 D. 728
-

Question 8

Make the following number sentence equivalent by completing the missing operation.

$$28 \square 4 = 350 \div 50$$

- A. + B. - C. \times D. \div
-

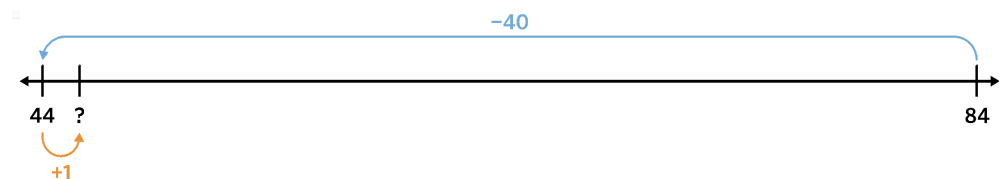
Question 9

Larry had 135 followers on TikTok. After posting a viral video, Larry's total number of followers was 9 times larger. How many followers did Larry have after posting the viral TikTok?

- A. 1215 B. 1350 C. 1485 D. 2565
-

Question 10

Use the numberline and the compensation strategy to evaluate $84 - 39$.



- A. 40 B. 44 C. 45 D. 54

Year 7 Mathematics – Chapter 3 Test: Fractions and ratios

Question 11

The populations of all the North American countries are shown in the table below.

Country	Population
Canada	38 012 482
Mexico	129 205 458
United States	329 509 310

Use lead digit rounding to estimate the total number of people that live in North America.

- A.** 440 000 000 **B.** 450 000 000 **C.** 500 000 000 **D.** 540 000 000
-

Question 12

What is the value of the highlighted digit?

1 **4**82 563

- A.** 4 **B.** 400 **C.** 400 000 **D.** 4 000 000
-

Question 13

In Australian rules football a goal is worth 6 points and a behind is worth 1 point. The Fremantle Dockers scored 11 goals and 13 behinds in their preseason game. How many points did they score?

- A.** 73 **B.** 79 **C.** 89 **D.** 91
-

Question 14

Use the open array to determine the value of 59×28 .

	50	9
20	1000	180
8	400	72

- A.** 1252 **B.** 1472 **C.** 1580 **D.** 1652
-

Question 15

Evaluate the following using short division.

$$8 \overline{)341}$$

- A.** 35 r1 **B.** 42 r5 **C.** 42 r6 **D.** 43 r5

SHORT ANSWER (35 marks)

Question 16

(1 + 1 + 2 + 2 = 6 marks)

Use the vertical algorithm to complete each addition or subtraction calculation.

a. $75 + 23$

b. $168 - 43$

c. $1532 + 508 + 71$

d. $9626 - 6308$

Question 17

(1 + 1 + 2 + 2 marks = 6 marks)

Evaluate each expression.

a. $3 \times [(6 + 8) \div 2]$

b. $10 + [4 \times (8 - 7) \times 12] - 8$

c. $15 \times 4 + \{80 \div [24 \div (3 \times 2)]\}$

Year 7 Mathematics – Chapter 3 Test: Fractions and ratios

d. $6^2 + 32 \times [(8 \div 2) \div (5^2 - 23)]$

Question 18

(1 + 1 + 3 + 3 = 8 marks)

List the values in the described order.

- a.** Ascending: 1684, 8614, 4681
- b.** Descending: 21 466, 26 461, 21 646
- c.** Ascending: 1 654 662, 1 546 662, 1 654 266, 1 645 266
- d.** Descending: 8 421 365, 8 214 365, 8 421 635, 8 413 563
-

Question 19

(2 marks)

There are 7 different colours of Smarties (blue, brown, green, orange, purple, red, and yellow) and exactly 112 Smarties in a packet. How many purple Smarties are there in a packet if there are an equal number of each colour?

Year 7 Mathematics – Chapter 3 Test: Fractions and ratios**Question 20**

(3 marks)

Jacko and Scotty competed to see who could walk further over a 3 week period. Jacko walked 12 km in week one, 9 km in week two, and 18 km in week three. Scotty walked 16 km in week one and 13 km in week two. How far would Scotty have had to walk in week three if the competition ended in a draw?

Question 21

(3 marks)

Bill is planning his birthday party. He buys 11 party boxes of chips. In each party pack there are 20 small packets of chips that each weigh 19 grams. Use lead digit rounding to estimate the total weight of the chips Bill bought.

Question 22

(3 marks)

Nick Daicos averaged 22 kicks and 14 handballs when playing for the Oakleigh Chargers in 2021. Unfortunately the season was cut short and Nick was only able to play 5 games. How many kicks and how many handballs did Nick have in the 2021 season?

Year 7 Mathematics – Chapter 3 Test: Fractions and ratios

Question 23

(4 marks)

Touk owns a business selling lego sets. It costs him \$33 to buy a lego set from a warehouse and he sells each one for \$79. Touk sold 125 lego sets last year and sold 4 times more this year. How much profit did Touk make this year?

Note: $\text{profit} = \text{selling price} - \text{cost price}$

EXTENDED RESPONSE (20 marks)

Question 24

(1 + 2 + 2 + 1 + 2 = 8 marks)

Four friends, Buzz, Jasper, Joel and Barney, all play the soccer video game FIFA. The number of hours they spend playing each month is shown in the following table.

Name	Buzz	Jasper	Barney	Joel
Hours spent playing FIFA	45	16	38	52

- List the friends in ascending order of the number of hours they spend playing FIFA each month.
- Use lead digit rounding to estimate how many hours of FIFA that the friends play each month combined.
- Calculate the exact number of hours of FIFA that the friends play each month combined.
- What is the difference between the estimated number of hours and the actual number of hours?
- A fifth friend, Jake, also plays FIFA. How many hours does Jake play per month if Buzz and Barney play the same amount combined as Jasper, Joel and Jake?

Answers

MULTIPLE CHOICE

Question 1

C

Question 2

A

Question 3

A

Question 4

D

Question 5

B

Question 6

A

Question 7

C

Question 8

D

Question 9

A

Question 10

C

Question 11

A

Question 12

C

Question 13

B

Question 14

D

Question 15

B

SHORT ANSWER

Question 16

- a. 98
 - b. 125
 - c. 2111
 - d. 3318
-

Question 17

- a. 21
- b. 50
- c. 80
- d. 100

Year 7 Mathematics – Chapter 3 Test: Fractions and ratios**Question 18**

e. \$598

- a. 1684, 4681, 8614
- b. 26 461, 21 646, 21 466
- c. 1 546 662, 1 645 266, 1 654 266, 1 654 662
- d. 8 421 635, 8 421 365, 8 413 563, 8 214 365

Question 19

There are 16 purple Smarties in a packet.

Question 20

Scotty would have had to walk 10 km.

Question 21

Bill bought approximately 4000 grams of chips.

Question 22

Nick Daicos had 110 kicks and 70 handballs in the 2021 season.

Question 23

Touk made a profit of \$23 000.

EXTENDED RESPONSE**Question 24**

- a. Jasper, Barney, Buzz, Joel
 - b. 160 hours
 - c. 151 hours
 - d. 9 hours
 - e. 15 hours
-

Question 25

- a. \$380
- b. \$198
- c. 19 hours
- d. \$120