

This test covers material students should know before starting Primary Mathematics SIE 4B.

1 In 83 247,

- (a) The value of the digit 3 is .
- (b) The digit 8 is in the place.
- (c) Which digit has the greater value, 2 or 7? .
- (d) Write the number in words.
- _____

2 Complete the table.

Number	Rounded to the nearest		
	Ten	Hundred	Thousand
904			
4715			
88 597			
72 079			

3 Estimate and then find the sum or difference.

(a) $23\,843 + 67\,872 \approx$

$23\,843 + 67\,872 =$

(b) $92\,475 - 6063 \approx$

$92\,475 - 6063 =$

4 List the common factors of each set of numbers.

(a) 48, 30

(b) 32, 64

(c) 72, 81

5

45

20

27

32

75

60

Determine which of the above numbers are multiples of the following numbers:

(a) 2

(b) 3

(c) 5

(d) 6

(e) 8

(f) 10

6

Circle Yes or No.

(a) Is 81 a common multiple of 7 and 9?

Yes**No**

(b) Is 36 a common multiple of 3 and 6?

Yes**No****7**

A shop sells buns in packs of 6 and hotdogs in packs of 8.

What is the smallest number of packs of buns and of hotdogs Vani should buy in order to have one hot dog per bun?

8 Estimate and then find product.

(a) $6334 \times 5 \approx$

$6334 \times 5 =$

(b) $7664 \times 8 \approx$

$7664 \times 8 =$

(c) $92 \times 31 \approx$

$92 \times 31 =$

(d) $768 \times 30 \approx$

$768 \times 30 =$

(e) $25 \times 446 \approx$

$25 \times 446 =$

(f) $648 \times 92 \approx$

$648 \times 92 =$

9 Estimate and then divide.

If there is a remainder, write your answer as quotient R remainder.

(a) $4892 \div 2 \approx$

$4892 \div 2 =$

(b) $7791 \div 5 \approx$

$7791 \div 5 =$

(c) $5537 \div 7 \approx$

$5537 \div 7 =$

(d) $9118 \div 6 \approx$

$9118 \div 6 =$

10 There were 5390 cans.

A worker packed them into crates of 8 cans each.

(a) How many crates were there?

(b) How many cans were not packed?

11 Solve the word problems. You may draw models to help you.

(a) A farm planted 1236 apricot trees.

It planted 4 times as many apricot trees as apple trees.

It planted 30 fewer peach trees than apple trees.

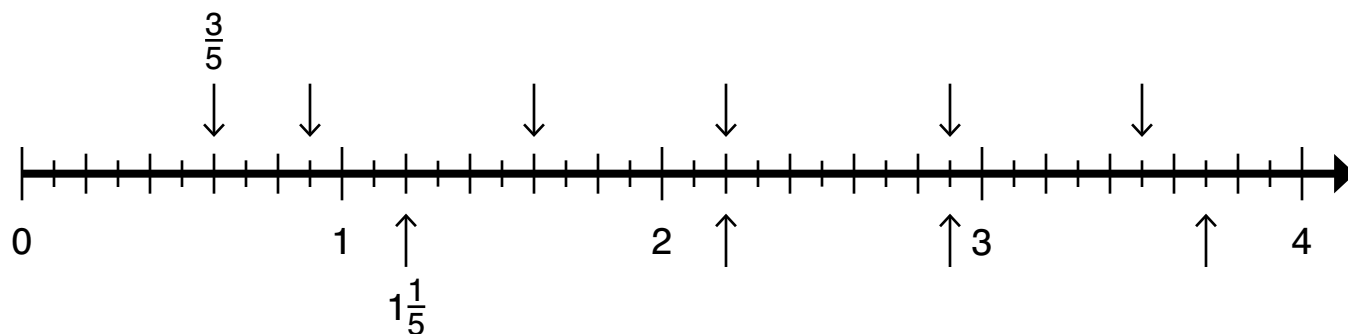
How many trees did it plant altogether?

(b) Daniel had as many marbles as Jayden at first.

After Jayden gave away 255 marbles, Daniel had 4 times as many marbles as Jayden.

How many marbles did Daniel have?

- 12** Finish labeling each arrow with a fraction above the number line and a mixed number below the number line. Use simplest form.



- 13** Express each value as an improper fraction.

(a) $6\frac{3}{5}$

(b) $4\frac{2}{7}$

(c) $3\frac{7}{8}$

(d) $6\frac{1}{6}$

- 14** Write the following numbers in ascending order.

$\frac{14}{3}, 3\frac{3}{7}, \frac{21}{4}$

- 15** What fraction of each set of stars is shaded?
Give your answer in simplest form.



- 16** Write a fraction in simplest form.

(a) 80 out of 320 =

(b) 15 out of 50 =

- 17** This table shows the survey results of the number of boys and girls who are left-handed or right-handed.

(a) Complete the table.

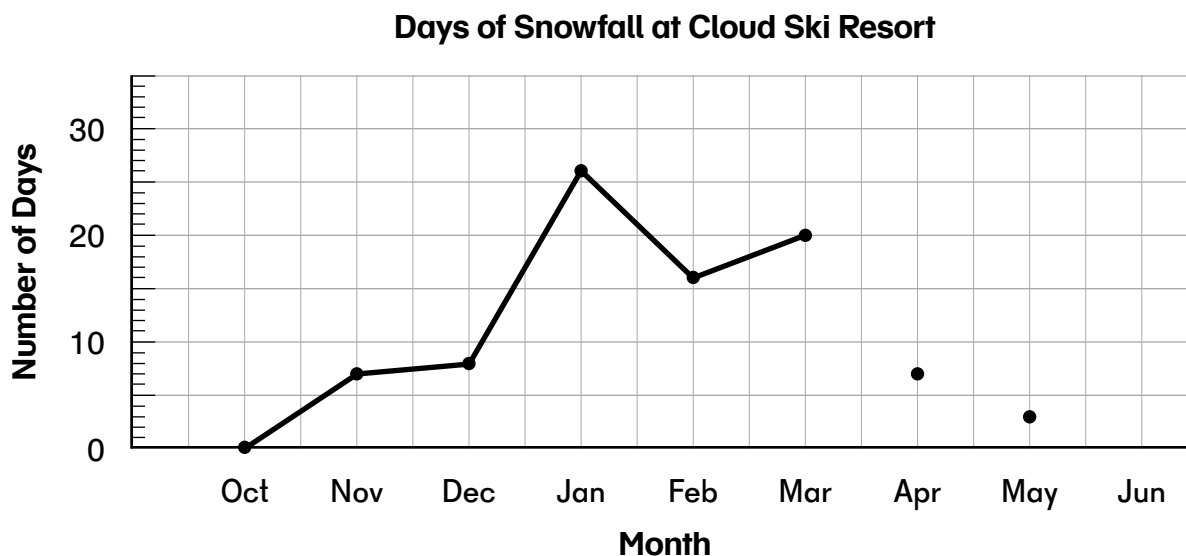
	Left-handed	Right-handed	Total
Number of boys	27		91
Number of girls	24		
Total		142	

- (b) How many children were surveyed?
- (c) How many more girls than boys are right-handed?
- (d) How many fewer boys are left-handed than right-handed?
- (e) How many more right-handed than left-handed children are there?
- (f) How many fewer boys than girls were surveyed?

- 18** This table shows the number of days it snowed each month from October to June at Cloud Ski Resort. A graph of the same data is partially completed.

Month	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Number of Days of Snow	0	7	8	26	16	20	7	3	1

- (a) Complete the graph.



- (b) Which three months had the most days of snowfall?
- (c) The greatest change in the number of days of snowfall was between which two months? Was this change an increase or a decrease?

- 19** The figures below are made up of 1-cm squares.

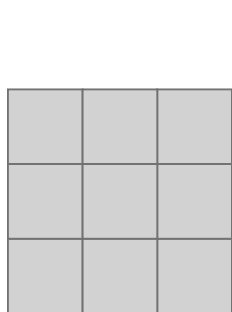


Figure A

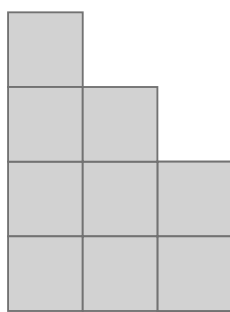


Figure B

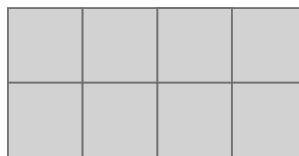


Figure C

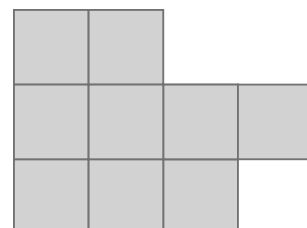


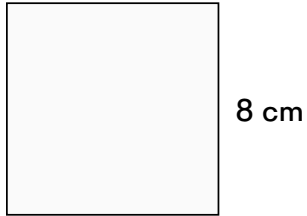
Figure D

- (a) Which figures have the same area but different perimeters?
- (b) Which figures have the same perimeter but different areas?
- (c) Which figures have the same area and the same perimeter?

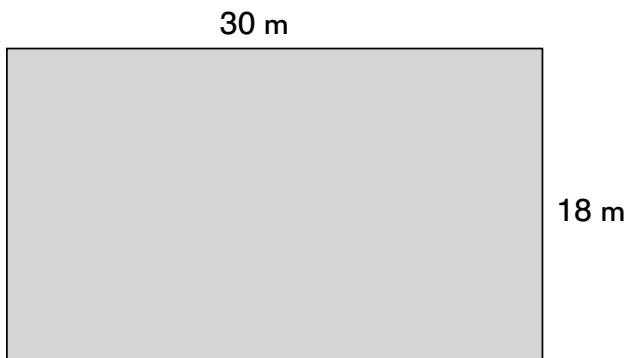
- 20** Draw three different rectangles, each with an area of 18 square units.
Find the perimeter of each rectangle.



- 21** Find the area and perimeter of the square.



- 22** Find the area and perimeter of the rectangular field.



- 23** The length of a rectangular bookmark is 3 times its breadth.
The breadth of the bookmark is 5 cm.
Find the area and perimeter of the bookmark.

- 24** The breadth of a rectangular piece of cardboard is 12 cm
Its breadth is 16 cm shorter than its length.
Find the perimeter and area of the cardboard.

Answer Key

For all estimates, accept reasonable estimates. Answers here are examples.

- 1** (a) 3000
 (b) ten thousands
 (c) 2
 (d) eighty-three thousand, two hundred and forty-seven

2

Number	Rounded to the nearest		
	Ten	Hundred	Thousand
904	900	900	1000
4715	4720	4700	5000
88 597	88 600	88 600	89 000
72 079	72 080	72 100	72 000

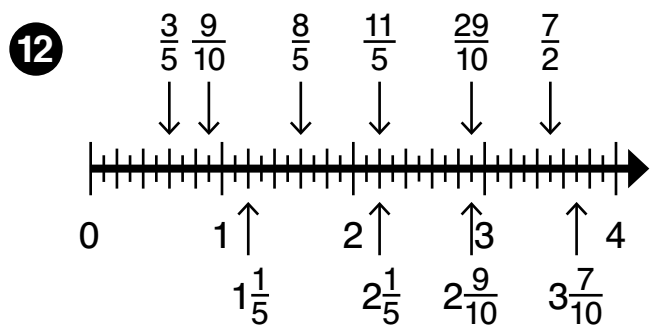
- 3** (a) $\approx 90\ 000$
 $= 91\ 715$
 (b) $\approx 86\ 000$
 $= 86\ 412$
- 4** (a) 1, 2, 3, 6
 (b) 1, 2, 4, 8, 16, 32
 (c) 1, 3, 9
- 5** (a) 20, 32, 60 (b) 45, 27, 75, 60
 (c) 45, 20, 75, 60 (d) 32, 60
 (e) 32 (f) 20, 60
- 6** (a) No
 (b) Yes

- 7** 4 packs of buns and
 3 packs of hotdogs

- 8** (a) $\approx 30\ 000$ (b) $\approx 64\ 000$
 $= 31\ 670$ $= 61\ 312$
 (c) ≈ 2700 (d) $\approx 24\ 000$
 $= 2852$ $= 23\ 040$
 (e) $\approx 12\ 500$ (f) $\approx 54\ 000$
 $= 11\ 150$ $= 59\ 616$
- 9** (a) ≈ 2400 (b) ≈ 1500
 $= 2446$ $= 1558\text{ R }1$
 (c) ≈ 800 (d) ≈ 1500
 $= 791$ $= 1519\text{ R }4$

- 10** (a) 673 crates
 (b) 6 cans not packed

- 11** (a) 1824 trees
 (b) 340 marbles



Answer Key

13 (a) $\frac{33}{5}$ (b) $\frac{30}{7}$
(c) $\frac{31}{8}$ (d) $\frac{37}{6}$

14 $3\frac{3}{7}, \frac{14}{3}, \frac{21}{4}$

15 (a) $\frac{1}{8}$ (b) $\frac{1}{5}$
(c) $\frac{2}{3}$ (d) $\frac{1}{2}$
(e) $\frac{6}{11}$ (f) $\frac{1}{2}$

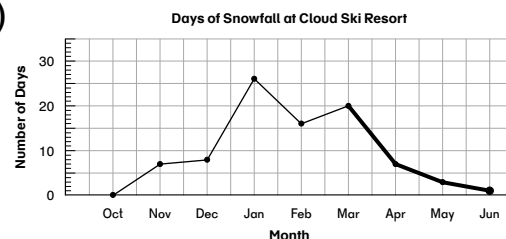
16 (a) $\frac{1}{4}$
(b) $\frac{3}{10}$

17 (a)

	Left-handed	Right-handed	Total
Number of boys	27	64	91
Number of girls	24	78	102
Total	51	142	193

- (b) 193
(c) 14
(d) 37
(e) 91
(f) 11

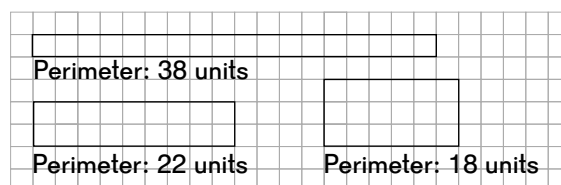
18 (a)



- (b) January, February, and March
(c) December to January, increase

- 19 (a) A, B, and D
(b) A and C
(c) B and D

20 Placement and orientation can vary.



21 Area: 64 cm^2
Perimeter: 32 cm

22 Area: 540 m^2
Perimeter: 96 m

23 Area: 75 cm^2
Perimeter: 40 cm

24 Area: 336 cm^2
Perimeter: 80 cm