

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

1 Write the missing numbers.

(a) $7000 + 500 + 20 + 5 =$

(b) $2000 + 30 =$

(c) $40 + 6000 + 200 + 1 =$

(d) $2097 = 7 + 2000 +$

2 In 9043,

(a) The value of the digit 4 is .

(b) The value of the digit 0 is .

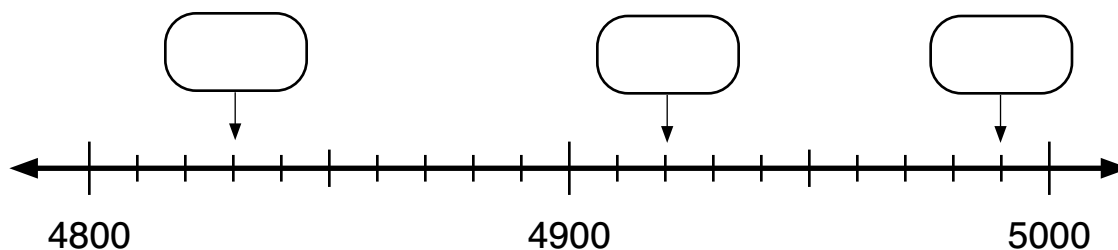
(c) The digit 9 is in the place.

(d) The digit 3 stands for .

3 Arrange the numbers 9382, 8932, 8839, and 9328 in increasing order.

, , ,

- 4 (a) Fill in the numbers indicated by the arrows.



Use the numbers you wrote to fill in the boxes.

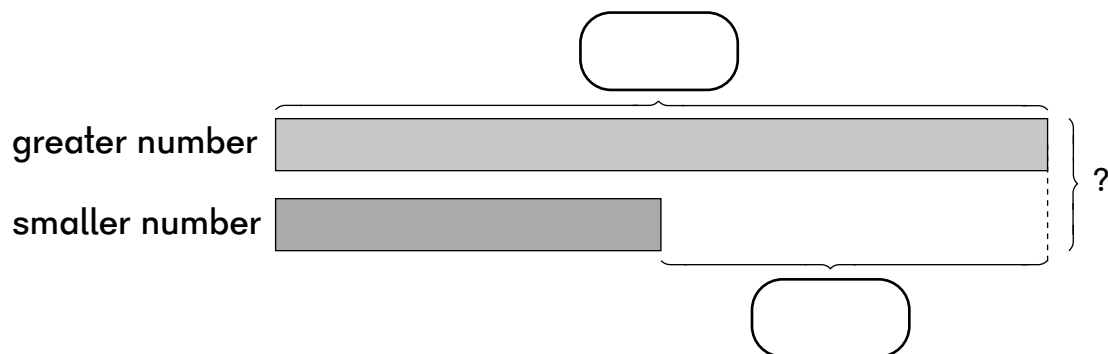
- (b) and are greater than 4900.
- (c) is the smallest number.

- 5 Fill in the missing numbers.

- (a) 2837, 2937, , 3137, 3237, , 3437
- (b) , 4652, 3652, 2652, 1652,
- (c) 4840, 4845, , 4855, 4860,

- 6 (a) 1000 more than 4378 is .
- (b) 100 less than 2028 is .
- (c) 1 less than 5000 is .

- 7 The difference between two numbers is 3061.
The greater number is 6031.
What is the sum of the two numbers?



The sum of the two numbers is .

- 8 There were 9758 people watching a concert.
5302 of them were adults.
How many fewer children than adults were there?

There were fewer children than adults.

9 Use mental calculation.

(a) $25 + 17 =$

(b) $37 + 47 =$

(c) $19 + 27 =$

(d) $98 + 26 =$

(e) $36 - 18 =$

(f) $53 - 29 =$

(g) $90 - 37 =$

(h) $66 - 49 =$

10 Use mental calculation.

(a) $20¢ +$ $¢ = \$1$

(b) $¢ + 45¢ = \$1$

(c) $\$$ $+ \$1.80 = \10

(d) $\$5.15 + \$$ $= \$10$

(e) $\$23.60 + \$$ $= \$100$

(f) $\$$ $+ \$46.55 = \100

11 Use any strategy to add or subtract.

(a) $\$5.70 + \$70.25 = \$$

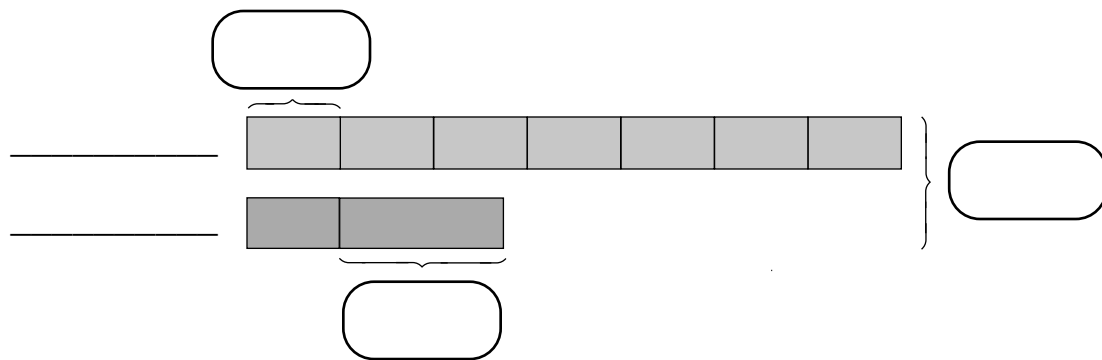
(b) $\$50.50 + \$22.80 = \$$

(c) $\$15.20 - \$1.40 = \$$

(d) $\$42.55 - \$36.80 = \$$

- 12** Julie bought a math book for \$14.50 and story book for \$9.90.
She paid for the books with a \$50 note.
How much change did she get?

- 13** Ravi paid \$28 for a carton of milk and 7 bags of potato chips.
The milk cost \$4 more than one packet of potato chips.
How much does one packet of potato chips cost?



14 Multiply. Show your work.

(a) $82 \times 4 =$

(b) $29 \times 3 =$

(c) $125 \times 7 =$

(d) $227 \times 4 =$

(e) $563 \times 3 =$

(f) $478 \times 6 =$

15 Divide. Show your work.

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

(a) $54 \div 3 =$

(b) $672 \div 2 =$

(c) $54 \div 4 =$

(d) $714 \div 5 =$

(e) $896 \div 8 =$

(f) $625 \div 6 =$

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

(a) Mrs Lee had 142 sandwiches.

She sold 3 times as many sandwiches in the morning as in the afternoon.

She had 2 sandwiches left.

How many sandwiches did she sell in the afternoon?

(b) There are 6 crates each with 250 oranges.

The oranges are packed into bags of 8 oranges.

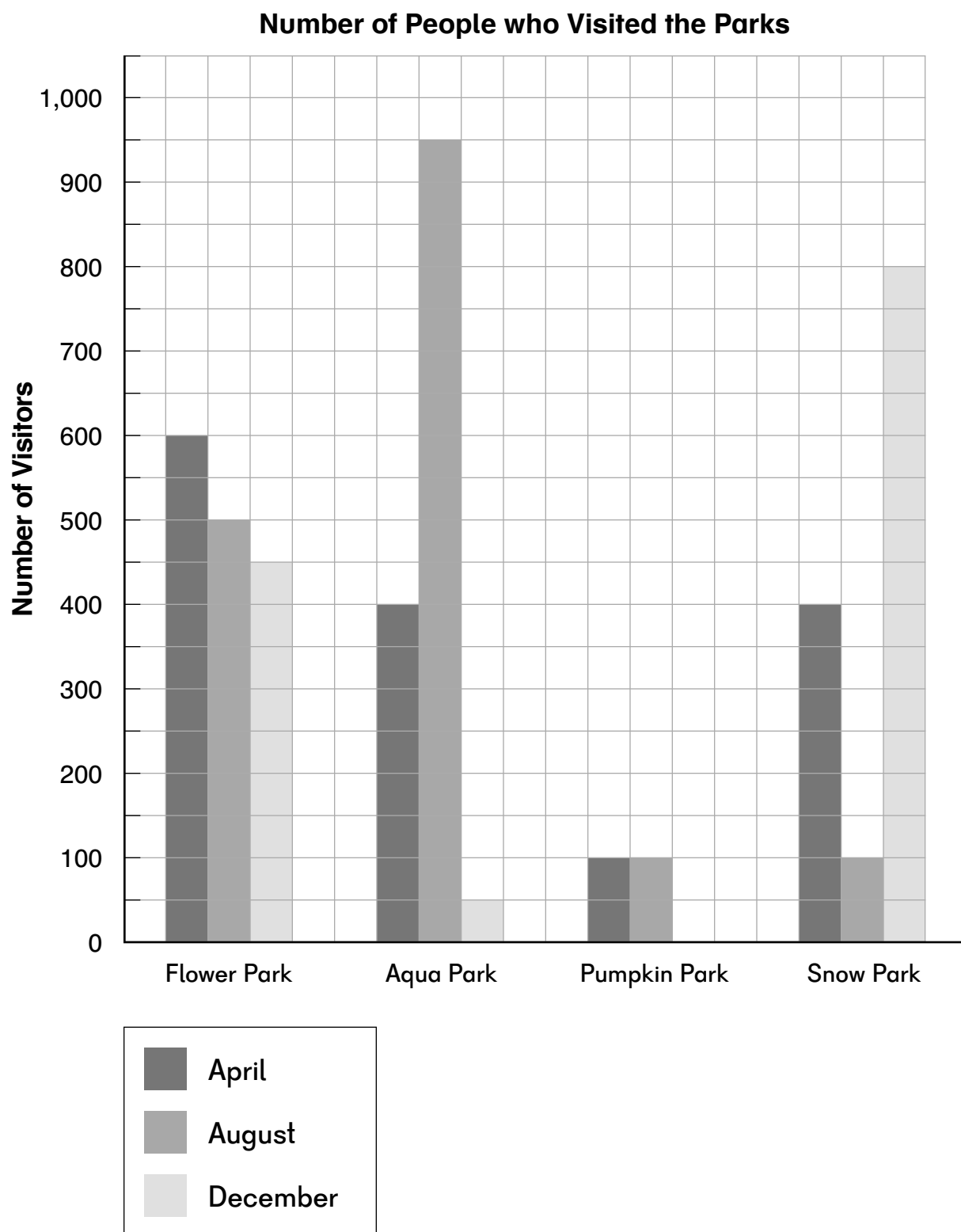
How many oranges are left over?

(c) Gopal has 168 marbles. He has 3 times as many marbles as Ravi.

Siti has twice as many marbles as Ravi.

How many marbles does Siti have?

- 17 This graph shows the number of visitors to four parks in three different months.



- (a) Which parks had more than 400 visitors in August?
- (b) Which park had no visitors in December?
- (c) Which parks had the same number of visitors in April?
- (d) Which park had about the same number of visitors for all three months?
- (e) How many more visitors visited Snow Park in December than in August?
- (f) How many visitors visited Flower Park in all three months?
- (g) How many fewer visitors visited Flower Park than Aqua Park in August?

18 Fill in the missing numerator or denominator of the equivalent fraction.

(a) $\frac{2}{5} = \frac{\boxed{}}{15}$

(b) $\frac{3}{6} = \frac{9}{\boxed{}}$

(c) $\frac{6}{8} = \frac{\boxed{}}{48}$

(d) $\frac{5}{7} = \frac{30}{\boxed{}}$

19 Write each fraction in its simplest form.

(a) $\frac{6}{8} = \boxed{}$

(b) $\frac{4}{12} = \boxed{}$

(c) $\frac{6}{15} = \boxed{}$

(d) $\frac{10}{25} = \boxed{}$

20 Write $>$ or $<$ in each $\bigcirc$.

(a) $\frac{5}{7} \bigcirc \frac{3}{7}$

(b) $\frac{3}{5} \bigcirc \frac{3}{7}$

(c) $\frac{7}{12} \bigcirc \frac{3}{4}$

(d) $\frac{7}{6} \bigcirc \frac{2}{3}$

(e) $\frac{5}{6} \bigcirc \frac{4}{9}$

(f) $\frac{3}{10} \bigcirc \frac{5}{6}$

- 21** Arrange the fractions $\frac{6}{9}$, $\frac{4}{10}$, $\frac{6}{7}$ in decreasing order.

, ,

- 22** Add or subtract. Express your answer as a fraction in its simplest form.

(a) $\frac{2}{9} + \frac{2}{3} =$

(b) $\frac{1}{5} + \frac{3}{10} =$

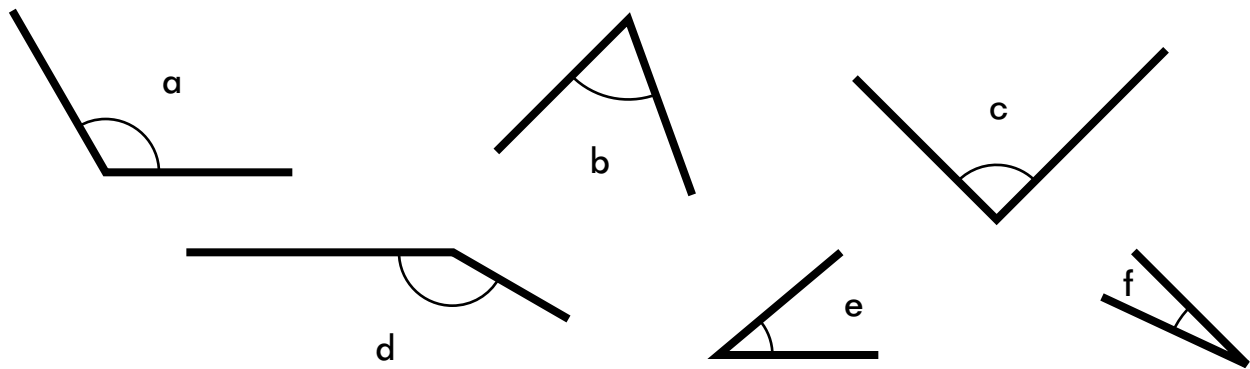
(c) $\frac{1}{12} + \frac{2}{3} =$

(d) $\frac{7}{8} - \frac{1}{4} =$

(e) $\frac{5}{12} - \frac{1}{4} =$

(f) $\frac{1}{2} - \frac{3}{10} =$

23



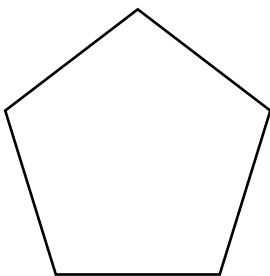
(a) Which angle is a right angle?

(b) Which angles are acute angles?

(c) Which angles are obtuse angles?

24

Fill in the numbers for the various types of angles inside the shape.

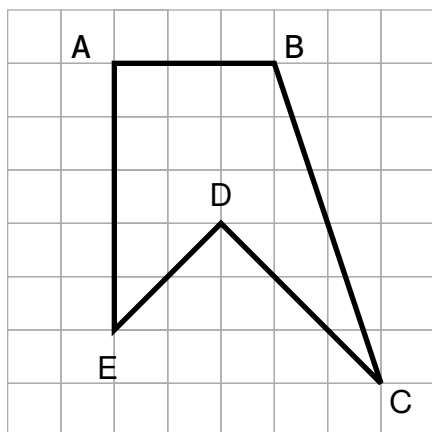


(a) There are acute angles.

(b) There are obtuse angles.

(c) There are right angles.

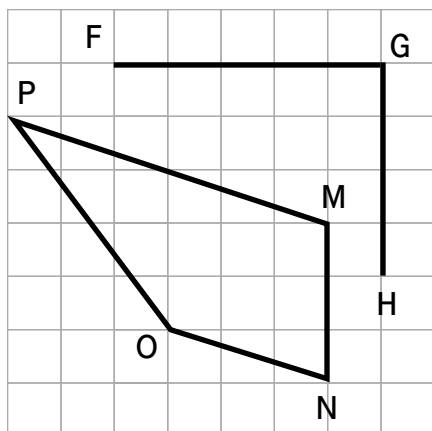
- 25** Identify and name the pairs of perpendicular lines.



$\perp$

$\perp$

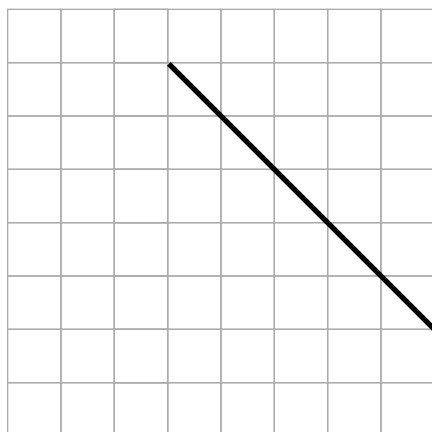
- 26** Identify and name the pairs of parallel lines.



$\parallel$

$\parallel$

- 27** Draw one line parallel and one line perpendicular to the given line.

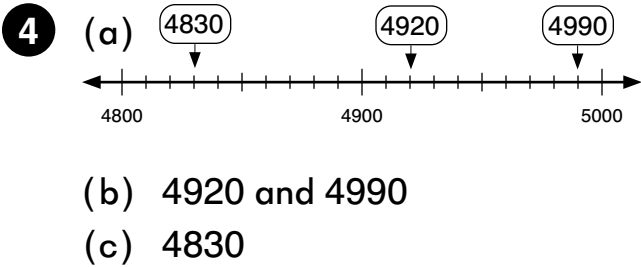


Answer Key

- 1 (a) 7525
(b) 2030
(c) 6241
(d) 90

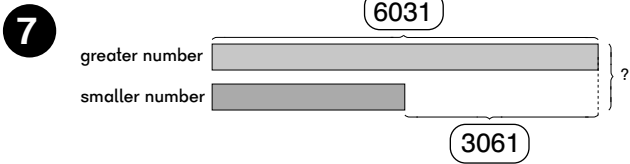
- 2 (a) 40
(b) 0
(c) thousands
(d) 3

- 3 8839, 8932, 9328, 9382



- 5 (a) 3037 3337
(b) 5652 652
(c) 4850 4865

- 6 (a) 5378
(b) 1928
(c) 4999



9001

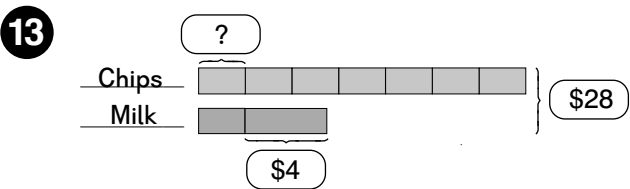
- 8 846

- 9 (a) 42 (b) 84
(c) 46 (d) 124
(e) 18 (f) 24
(g) 53 (h) 17

- 10 (a) 80 (b) 55
(c) 8.20 (d) 4.85
(e) 76.40 (f) 53.45

- 11 (a) 75.95 (b) 73.30
(c) 13.80 (d) 5.75

- 12 \$25.60



\$3

Answer Key

- 14** (a) 318 (b) 87
(c) 875 (d) 908
(e) 1689 (f) 2868
- 15** (a) 18 (b) 336
(c) 13 R 2 (d) 142 R 4
(e) 112 (f) 104 R 1
- 16** (a) 35 sandwiches
(b) 4 left over
(c) 112 marbles
- 17** (a) Flower Park and Aqua Park
(b) Pumpkin Park
(c) Aqua Park and Snow Park
(d) Flower Park
(e) 700
(f) 1550
(g) 450
- 18** (a) $\frac{6}{15}$ (b) $\frac{36}{48}$
(c) $\frac{9}{18}$ (d) $\frac{30}{42}$
- 19** (a) $\frac{3}{4}$ (b) $\frac{2}{5}$
(c) $\frac{1}{3}$ (d) $\frac{2}{5}$

- 20** (a) $>$ (b) $>$
(c) $<$ (d) $>$
(e) $>$ (f) $<$

21 $\frac{6}{7}, \frac{6}{9}, \frac{4}{10}$

- 22** (a) $\frac{8}{9}$ (b) $\frac{1}{2}$
(c) $\frac{3}{4}$ (d) $\frac{5}{8}$
(e) $\frac{1}{6}$ (f) $\frac{1}{5}$

- 23** (a) c
(b) b, e, f
(c) a, d

- 24** (a) 3
(b) 2
(c) 0

- 25** $EA \perp AB$
 $ED \perp DC$

- 26** $GH \parallel MN$
 $PM \parallel ON$

- 27** Example:

