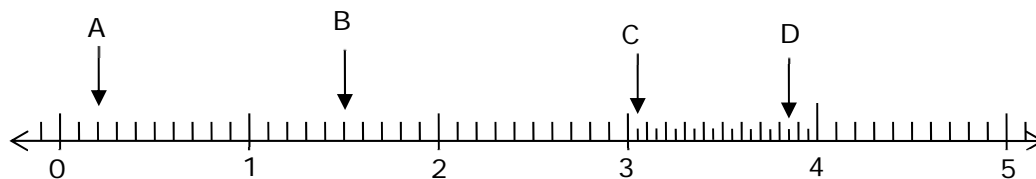


## Assessment Test for Singapore Primary Mathematics 4B

This test covers material taught in Primary Mathematics 4B

(<http://www.singaporemath.com/>)

1. Write the whole or decimal number that each letter represents. [4]



A: \_\_\_\_\_ B: \_\_\_\_\_ C: \_\_\_\_\_ D: \_\_\_\_\_

2. Express each of the following as a decimal number. [2]

(a)  $\frac{16}{10}$

(b)  $4 + \frac{8}{100}$

---

(c)  $5 + \frac{6}{10} + \frac{4}{1,000}$

(d)  $\frac{104}{1,000}$

---

(e)  $3\frac{3}{4}$

(f)  $\frac{4}{25}$

3. Arrange in increasing order. [2]

(a) 4.04    0.4    4.4    0.004

---

(b)  $\frac{5}{8}$     0.602     $\frac{3}{5}$     0.66

4. Express each decimal number as a fraction or mixed number in its simplest form.

(a) 0.6

(b) 4.12

[2]

---

(c) 0.408

(d) 6.002

[2]

5. Solve.

(a)  $26.45 + 29.73$

(b)  $4.83 + 0.6$

[2]

---

(c)  $2.3 - 0.37$

(d)  $40 - 0.08$

[2]

---

(e)  $23.73 \times 7$

(f)  $4 \times 49.08$

[4]

6. Give the answer correct to 1 decimal place.

(a)  $42.3 \div 3$

(b)  $68 \div 7$

[4]

---

(c)  $68.31 \div 8$

(d)  $174.5 \div 6$

[4]

---

(e)  $45 \div 4$

(f)  $230 \div 7$

[4]

7. Jasmine saved \$31.85. Her brother saved \$19.65 less than she did. How much money did both of them save?

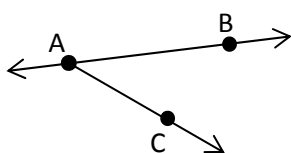
[3]

8. A painter mixed 12.5 quarts of white paint with 16.7 quarts of green paint. He poured the mixture equally into 4 cans. He used one can to paint a wall. How many quarts of paint does he have left?

[3]

9. 0.3 of all the apples a grocer had were sold. If he had 49 apples left, how many apples did he have at first? [3]

10. Name one of the following geometric constructions in the drawing, using only the labeled points. [4]



Angle: \_\_\_\_\_

Ray: \_\_\_\_\_

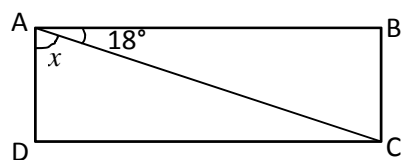
Line: \_\_\_\_\_

Line segment: \_\_\_\_\_

11. A  $\frac{3}{4}$  turn is \_\_\_\_\_ right angles and is \_\_\_\_\_ degrees. [2]

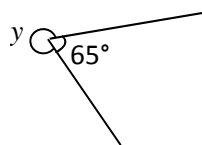
12. Find the measure of the marked unknown angle. [2]

(a) ABCD is a rectangle



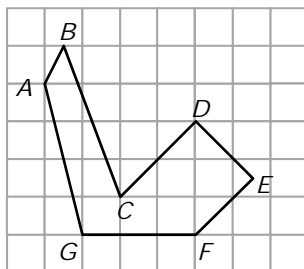
$m\angle x =$  \_\_\_\_\_

(b)



$m\angle y =$  \_\_\_\_\_

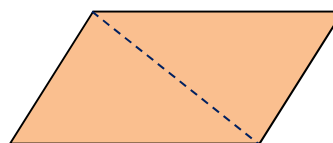
13.



(a) Name a pair of parallel lines. [1]

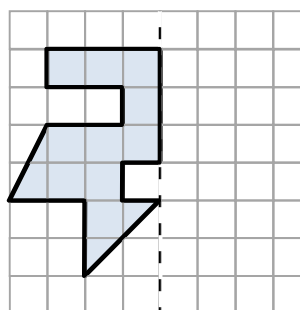
(b) Name a pair of perpendicular lines. [1]

14. The figure at the right is a parallelogram. Is the dashed line a line of symmetry?



[1]

15. Complete the symmetric figure with the dotted line as the line of symmetry.



[2]

16. Which of the following shapes must also always be a parallelogram? Circle them. [2]

Square

Quadrilateral

Trapezoid

Rhombus

Rectangle

Polygon

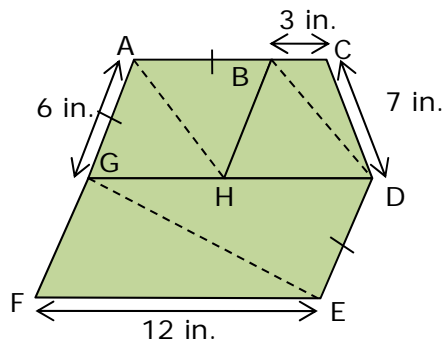
17. Which of the following types of triangles have line symmetry? [1]

Scalene

Isosceles

Equilateral

18. This figure ACDEF is a pentagon and is made up of the three quadrilaterals, ABHG, BCDH, and GDEF. One is a trapezoid but not a parallelogram, and two are parallelograms.  $GA = AB = DE = 6$  in.,  $BC = 3$  in.,  $CD = 7$  in.,  $EF = 12$  in.

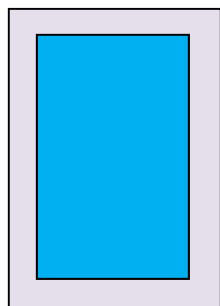


- (a) Quadrilateral GDEF has \_\_\_\_\_ right angles, \_\_\_\_\_ obtuse angles, [2]  
and \_\_\_\_\_ acute angles.
- (b) Which quadrilateral is a trapezoid but not a parallelogram? [1]  
\_\_\_\_\_
- (c) Which quadrilateral is a rhombus? \_\_\_\_\_. [1]
- (d) Lines are drawn from A to H, from G to E, and from B to D, forming [2]  
triangles. If  $GE = 14$  in, what is the perimeter of triangle GFE?  
\_\_\_\_\_ in.
- (e) Which of the triangles are: [2]  
Scalene: \_\_\_\_\_  
Isosceles: \_\_\_\_\_  
Equilateral: \_\_\_\_\_  
Have one obtuse angle: \_\_\_\_\_
- (f) The perimeter of the figure ACDEF is \_\_\_\_\_ in. [2]

19. A rectangular swimming pool measures 24 m by 16 m.

(a) Find the area of the pool.

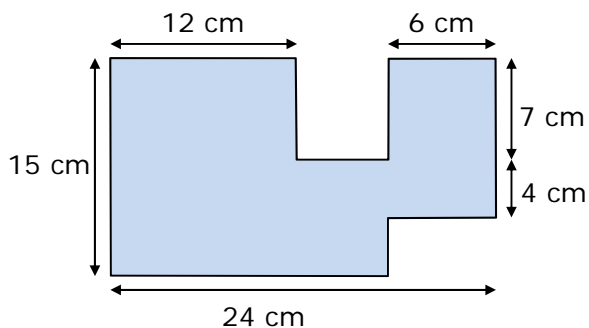
[2]



(b) A concrete path 2 m wide is paved around the swimming pool. What is the area of the path?

[3]

20. In the figure, all lines meet at right angles.



(a) Find the area of the figure. \_\_\_\_\_

[3]

(b) Find the perimeter. \_\_\_\_\_

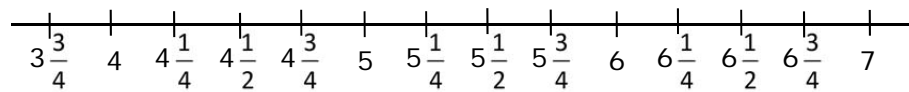
[3]

21. Valerie recorded the weights of some mature dogs of a certain small breed that were brought to the veterinarian clinic to the nearest quarter of a pound.

Weight in pounds

$5\frac{1}{4}$	$5\frac{3}{4}$	$3\frac{3}{4}$	$6\frac{1}{4}$	$4\frac{3}{4}$	5	$4\frac{3}{4}$	$5\frac{1}{2}$	$5\frac{1}{2}$	5
$4\frac{1}{4}$	$5\frac{3}{4}$	$6\frac{1}{4}$	$4\frac{1}{2}$	$5\frac{1}{2}$	6	$5\frac{3}{4}$	$4\frac{3}{4}$	$5\frac{1}{2}$	$5\frac{3}{4}$
$5\frac{1}{4}$	$6\frac{1}{2}$	$5\frac{3}{4}$	$6\frac{1}{2}$	6	$4\frac{3}{4}$	$6\frac{1}{4}$	5	$5\frac{3}{4}$	6

- (a) Create a line plot from the data. [3]



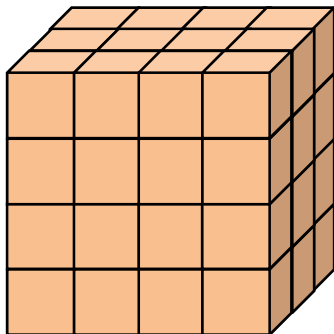
- (b) What is the most common weight? [1]

- (c) What is the difference between the heaviest and lightest weight recorded? [2]

- (d) What fraction of the dogs weighed  $6\frac{1}{4}$  lb? [2]



22.



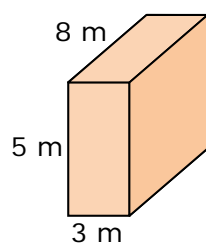
What is the volume of this solid?

[2]

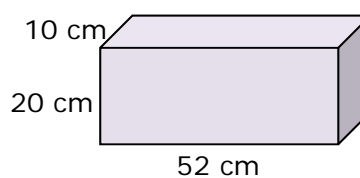
\_\_\_\_\_ cubic units

23. Find the volume of each rectangular prism.

(a)



(b)

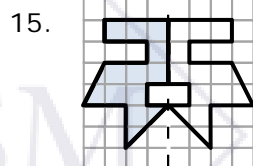


[4]

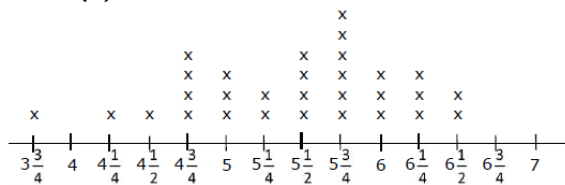


## Answer Key

1. A: 0.2 B: 1.5 C: 3.05 D: 3.85
2. (a) 1.6 (b) 4.08  
(c) 5.604 (d) 0.104  
(e) 3.75 (f) 0.16
3. (a) 0.004 0.4 4.04 4.4  
(b)  $\frac{3}{5}$  0.602  $\frac{5}{8}$  0.66
4. (a)  $\frac{3}{5}$  (b)  $4\frac{3}{25}$   
(c)  $\frac{51}{125}$  (d)  $6\frac{1}{500}$
5. (a) 56.18 (b) 5.43  
(c) 1.93 (d) 39.92  
(e) 166.11 (f) 196.32
6. (a) 14.1 (b) 9.7  
(c) 8.5 (d) 29.1  
(e) 11.3 (f) 32.9
7. \$44.05
8. 21.9 quarts
9. 70
10. Angle: BAC or CAB  
Ray: AB or AC  
Line: AB or BA  
Line segment: Ab, BA, AC, or CA
11. 3;  $270^\circ$
12. (a)  $72^\circ$   
(b)  $295^\circ$
13. (a) CD, EF  
(b) CD, DE
14. no



16. Square, Rhombus, Rectangle
17. Isosceles, Equilateral
18. Note: Students may have a different order of vertices in their answers.  
(a) 0, 2, 2  
(b) BCDH  
(c) ABHG  
(d) 32 in.  
(e) Scalene: BCD, GDE, GEF  
Isosceles: AHG, ABH, BDH  
Equilateral: none  
1 obtuse angle: BCD  
(f) 46
19. (a)  $384 \text{ m}^2$   
(b)  $176 \text{ m}^2$
20. (a)  $294 \text{ cm}^2$   
(b) 92 cm
21. (a)



- (b)  $5\frac{3}{4} \text{ lb}$
- (c)  $2\frac{3}{4} \text{ lb}$
- (d)  $\frac{1}{10}$
22. 48
23. (a)  $120 \text{ m}^3$   
(b)  $10,400 \text{ cm}^3$