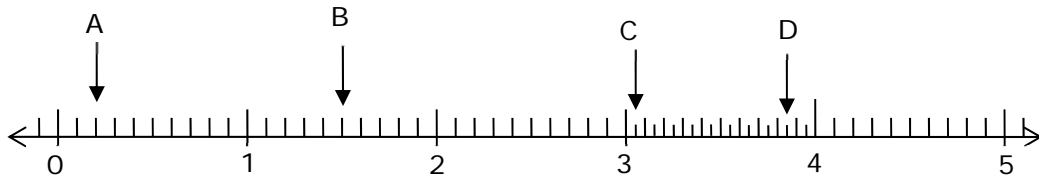


Assessment Test for Singapore Primary Mathematics 4B Common Core Edition

This test covers material taught in Primary Mathematics 4B Common Core Edition
(<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) 23.73×7

(f) 4×49.08

[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?

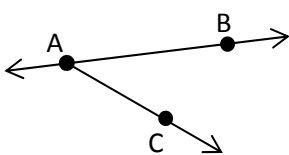
[3]

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: _____

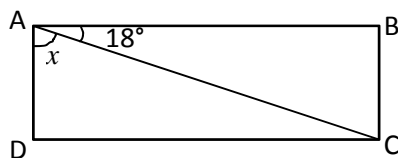
Ray: _____

Line: _____

Line segment: _____

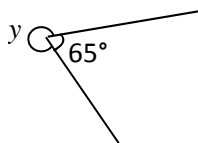
11. A $\frac{3}{4}$ turn is _____ right angles and is _____ degrees. [2]

12. Find the measure of the marked unknown angle.
 (a) ABCD is a rectangle [2]



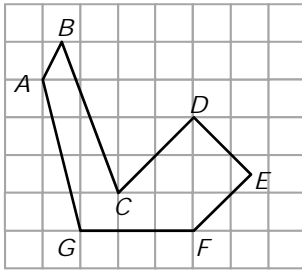
$m\angle x =$ _____

- (b) [2]



$m\angle y =$ _____

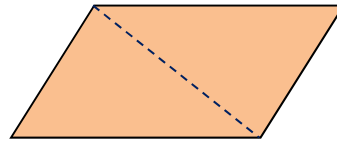
13.



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

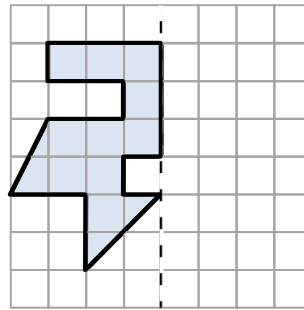
(b) Name a pair of perpendicular lines. [1]

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

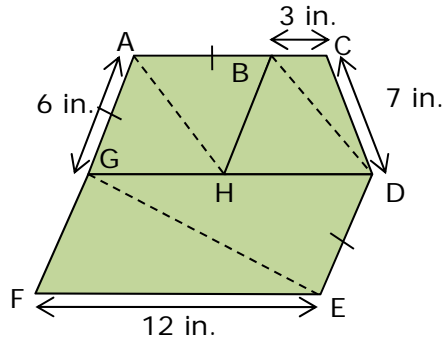
17. Which of the following types of triangles have line symmetry? [1]

Scalene

Isosceles

Equilateral

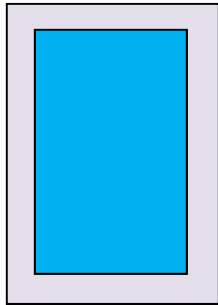
18. This figure ACDEF is a pentagon and is made up of the three quadrilaterals, ABHG, BCDH, and GDEF. One is a trapezoid but not a parallelogram, and two are parallelograms. $GA = AB = DE = 6$ in., $BC = 3$ in., $CD = 7$ in., $EF = 12$ in.



- (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]

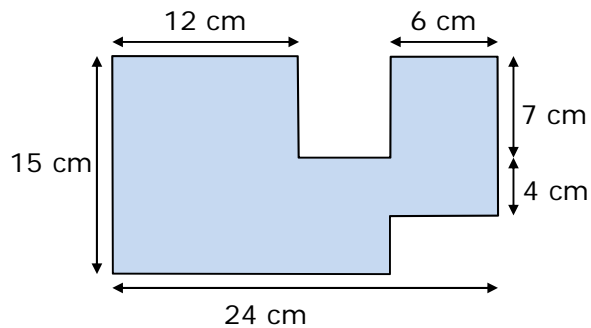
19. A rectangular swimming pool measures 24 m by 16 m.



(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]

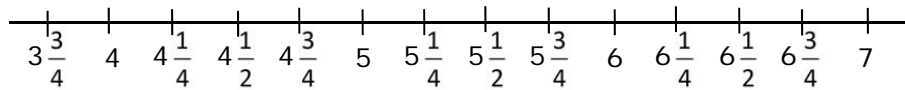
(b) Find the perimeter. _____ [3]

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]

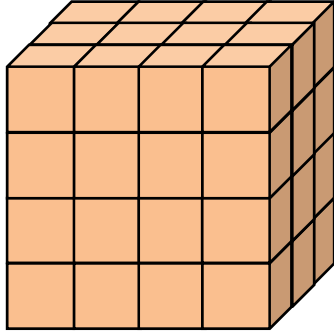


- (b) What is the most common weight? [1]

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

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

22.



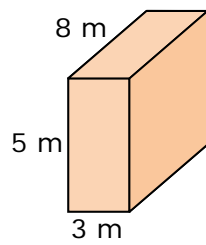
What is the volume of this solid?

[2]

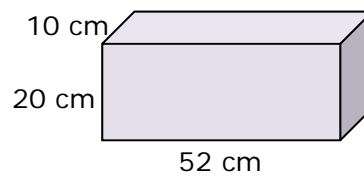
_____ cubic units

23. Find the volume of each rectangular prism.

(a)



(b)

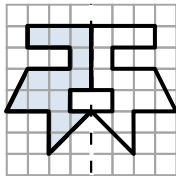


[4]

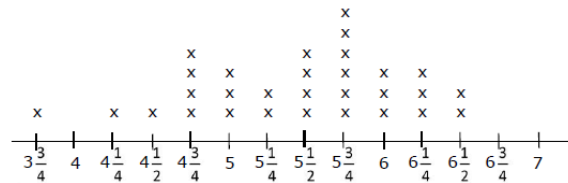
Answer Key

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

15.



- Square, Rhombus, Rectangle
- Isosceles, Equilateral
- 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
- (a) 384 m^2
(b) 176 m^2
- (a) 294 cm^2
(b) 92 cm
- (a)



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