

Placement Test for Singapore Primary Mathematics 5B U.S. Edition

This test covers material taught in Primary Mathematics 5B, U.S. Edition
(<http://www.singaporemath.com/>)

1. Express $8\frac{5}{8}$ as a decimal correct to 2 decimal places. [2]

2. Multiply or divide.

(a) 515.02×43

(b) 81×1.29

[4]

(c) $2.8 \div 400$

(d) $1421 \div 7000$

[4]

3. Find the equivalent measures.

(a) $0.4 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

(b) $1.25 \text{ kg} = \underline{\hspace{1cm}} \text{ kg } \underline{\hspace{1cm}} \text{ g}$

[4]

(c) $305 \text{ ml} = \underline{\hspace{2cm}} \text{ L}$

(d) $0.75 \text{ ft} = \underline{\hspace{2cm}} \text{ in.}$

[4]

(e) $6.25 \text{ lb} = \underline{\hspace{1cm}} \text{ lb } \underline{\hspace{1cm}} \text{ oz}$

(f) $3.25 \text{ gal} = \underline{\hspace{1cm}} \text{ gal } \underline{\hspace{1cm}} \text{ c}$

[4]

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4. Express each as a percentage. [2]
(a) 0.47

(b) $\frac{6}{15}$ [2]

(c) 215 out of 500 [2]

5. Express each percentage as a decimal and as a fraction in its simplest form. [3]

(a) 85% Decimal: _____ Fraction: _____

(b) 16% Decimal: _____ Fraction: _____ [3]

6. Find 32% of \$96. [2]

7. Find the average of 21.4, 18.2, and 65.7. [2]

8. Fill in the blank: The average of 42, 36, _____, and 25 is 30. [3]

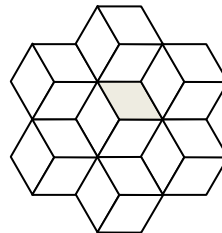
9. John had \$75. He spent \$15 on a book. What percentage of his money does he have left? [4]

10. The normal price of a camera was \$76. At a sale it was sold at a discount of 15%. What was the selling price of the camera? [4]

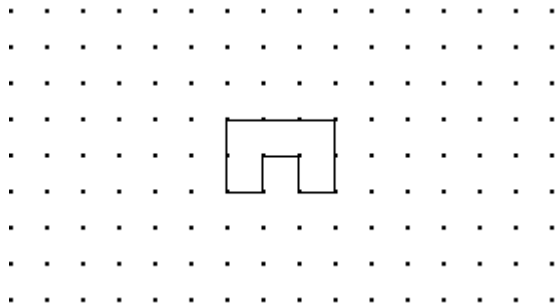
11. The average weight of 3 packages is 2 kg 750 g. The average weight of 2 of them is 3 kg 200 g. Find the weight of the third package. Give your answer in kg and g. [5]

12. In a city, the rate for taxi fare for the first kilometer is \$2.60 and for every additional kilometer it is \$0.80. Find the taxi fare for a journey of 6.5 km. [5]

13. The drawing shown at the right is an example of a tessellation using a rhombus. [2]



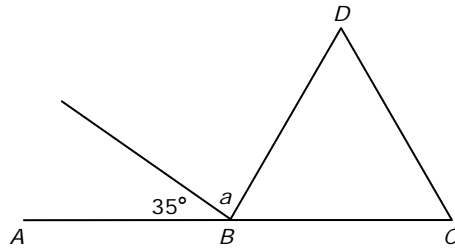
Use the shape given below to make a tessellation in the space provided.



14. The following figures are not drawn to scale. Find the unknown marked angle in each.

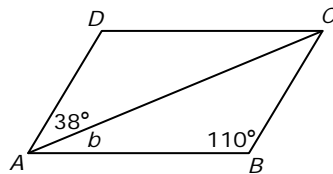
(a) ABC is a straight line. BCD is an equilateral triangle.

[3]



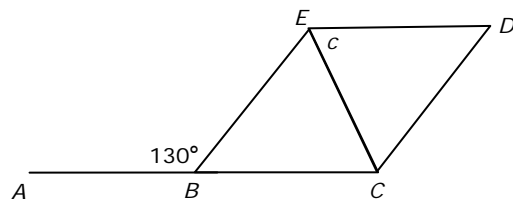
(b) ABCD is a parallelogram.

[3]



(c) ABC is a straight line. BCDE is a rhombus.

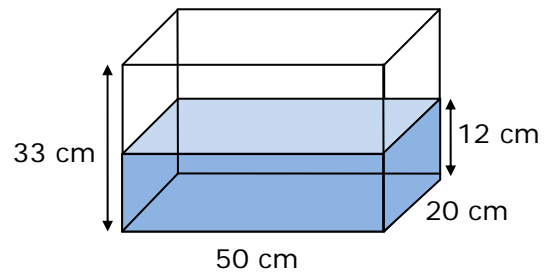
[3]



15. A rectangular tank measures 50 cm by 20 cm by 33 cm. It is to be filled with water from a tap. It takes 2 minutes to fill it to a height of 12 cm.

(a) What is the rate of flow from the tap in liters per minute?

[4]



(b) How many more minutes will it take to fill the tank?

[2]

16. A rectangular container 8 cm long and 9 cm wide was filled with water to a depth of 6 cm. When 12 marbles of equal size were added to the container, the depth of the water became 7.5 cm. Find the volume of one marble.

[5]

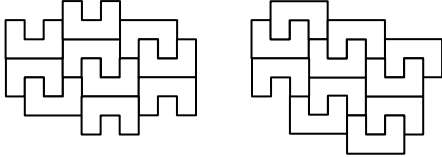
17. How many 4-cm cubes can fit into a rectangular box 1 m long, 0.4 m wide, and 0.6 m high? [5]

18. Sam had \$85 and John had \$220. They were each given an equal amount of money. Then John had twice as much money as Sam. How much money did each boy receive? [5]

19. Alice has 50% of the amount of money Betty has, and Carrie has $\frac{2}{5}$ of what Alice has. If Betty has \$364 more than Carrie, how much money does Alice have? [5]

20. The length of one side of a cube is 1 ft. What is its volume in cubic inches? [4]

Answer Key

1. (a) 8.63
2. (a) 22,145.86 (b) 104.49
(c) 0.007 (d) 0.203
3. (a) **40** cm (b) **1** kg **250** g
(c) **0.305** L (d) **9** in.
(e) **6** lb **4** oz (f) **3** gal **4** c
4. (a) 47% (b) 40% (e) 43%
5. (b) 0.85, $\frac{17}{20}$
(c) 0.16, $\frac{4}{25}$
6. \$30.72
7. 35.1
8. 17
9. 80%
10. \$64.60
11. 1 kg 850 g
12. \$7.40
13. Answers will vary.

14. (a) 85° (b) 32° (c) 65°
15. (a) 6 L/min (b) 3.5 min
16. 9 cm^3
17. 3750 4-cm cubes
18. \$50
19. \$227.50
20. 1728 in.^3

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