

Assessment Test for Singapore Primary Mathematics 3B Standards Edition

This test covers material taught in Primary Mathematics 3B Standards Edition
(<http://www.singaporemath.com/>)

1. What measuring unit would you use to measure the following? Fill in the blanks with centimeter, meter, kilometer, gram, kilogram, milliliter, or liter.
- (a) The weight of a marble. _____ [1]
- (b) The width of a piece of paper. _____ [1]
- (c) The capacity of a cup. _____ [1]
- (d) The capacity of a fish tank. _____ [1]
- (e) The length of a swimming pool. _____ [1]

2. What measuring unit would you use to measure the following? Fill in the blanks with inch, foot, yard, mile, ounce, pound, pint, quart, or gallon.
- (a) The capacity of a swimming pool. _____ [1]
- (b) The distance from Texas to Phoenix. _____ [1]
- (c) The weight of a person. _____ [1]
- (d) The length of your foot. _____ [1]
- (e) The weight of an apple. _____ [1]

3. Write $>$, $<$, or $=$ in each \bigcirc
- (a) 3 qt 3 pt \bigcirc 1 gal (b) 3 km 6 m \bigcirc 3600 m [2]
- (c) 1 mile \bigcirc 1 km (d) 2 months \bigcirc 50 days [2]
- (e) 2 h \bigcirc 210 min (f) 3 weeks 5 days \bigcirc 26 days [2]

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4. Fill in the blanks.

(a) $5 \text{ m} - 3 \text{ m } 45 \text{ cm} = \underline{\hspace{2cm}} \text{ m } \underline{\hspace{2cm}} \text{ cm}$ [1]

(b) $3 \text{ kg } 250 \text{ g} - 1 \text{ kg } 600 \text{ g} = \underline{\hspace{2cm}} \text{ kg } \underline{\hspace{2cm}} \text{ g}$ [1]

(c) $5 \text{ h } 10 \text{ min} - 3 \text{ h } 25 \text{ min} = \underline{\hspace{2cm}} \text{ h } \underline{\hspace{2cm}} \text{ min}$ [1]

(d) $4 \text{ yd } 1 \text{ ft} - 1 \text{ yd } 2 \text{ ft} = \underline{\hspace{2cm}} \text{ yd } \underline{\hspace{2cm}} \text{ ft}$ [1]

(e) $6 \text{ ft } 7 \text{ in.} + 2 \text{ ft } 10 \text{ in.} = \underline{\hspace{2cm}} \text{ ft } \underline{\hspace{2cm}} \text{ in.}$ [1]

(f) $3 \text{ lb} - 2 \text{ lb } 5 \text{ oz} = \underline{\hspace{2cm}} \text{ lb } \underline{\hspace{2cm}} \text{ oz}$ [1]

(g) $13 \text{ gal } 1 \text{ qt} - 2 \text{ gal } 3 \text{ qt} = \underline{\hspace{2cm}} \text{ gal } \underline{\hspace{2cm}} \text{ qt}$ [1]

(h) $3 \text{ h } 20 \text{ min} + 1 \text{ h } 45 \text{ min} = \underline{\hspace{2cm}} \text{ h } \underline{\hspace{2cm}} \text{ min}$ [1]

5. The length of board A is 3 ft 4 inches. The length of board B is 45 inches. Which is longer? How much longer? [3]

6. A melon is 5 times as heavy as an orange. If the orange weighs 450 g, find the difference in weight between the orange and the melon. Give your answer in kilograms and grams. [3]

7. Peter weighs 40 lb 10 oz. Paul weighs 1 lb 12 oz less than Peter. [3]
Mary weighs 2 lb 4 oz more than Paul. What is the total weight of
the three children?

8. String A is 85 cm long. String B is twice as long. String C is 30 cm [4]
shorter than string B. How long is string C? Give your answer in
meters and centimeters.

9. John took 2 h 40 min to paint his room. He finished at 1:30 p.m. [3]
What time did he begin painting his room?

10. Fill in the blanks. [2]
(a) 7 quarters = \$_____ (b) 15 nickels = \$_____

11. The sum of 6 one-dollar bills, 5 quarters, 8 dimes, 5 nickels, and 14 [2]
pennies is \$_____

12. Solve using mental math:

(a) $\$15.60 + 45\text{¢} = \$______$ (b) $\$15.35 + \$35.75 = \$______$ [2]

(c) $\$100 - \$53.80 = \$______$ (d) $\$10.05 - \$5.35 = \$______$ [2]

(e) $400\text{¢} \times 3 = \$______$ (f) $\$3.60 \div 6 = \$______$ [2]

13. Solve:

(a)
$$\begin{array}{r} \$35.92 \\ + \$23.86 \\ \hline \end{array}$$

(b)
$$\begin{array}{r} \$60.05 \\ - \$33.17 \\ \hline \end{array}$$
 [2]

(c)
$$\begin{array}{r} \$13.90 \\ \times \quad \quad \quad 7 \\ \hline \end{array}$$

(d)
$$5 \overline{) \$41.00}$$
 [2]

14. Mr. Green bought some vegetables for \$8.50 and fish for \$12.95. He had \$32.30 left. How much money did he have at first? [3]

15. A 10 oz. carton of strawberries at a farmer's market costs \$2. Hallie wants to buy strawberries only if they are less than \$3 a pound. Should she buy the strawberries? Show your work. [3]

16. Find the missing numbers for the top or bottom of the fractions.

(a) $\frac{2}{3} = \frac{\square}{12} = \frac{4}{\square}$

(b) $\frac{6}{18} = \frac{\square}{6} = \frac{1}{\square}$ [2]

17. Circle the larger fraction.

(a) $\frac{4}{5}$ $\frac{4}{9}$

(b) $\frac{2}{3}$ $\frac{5}{6}$ [2]

18. Express each of the following fractions in its simplest form.

(a) $\frac{6}{10}$

(b) $\frac{3}{9}$ [2]

19. Solve.

(a) $\frac{3}{7} + \frac{2}{7} =$

(b) $1 - \frac{3}{10} =$ [2]

(c) $\frac{1}{3}$ of 9 =

(d) $\frac{3}{4}$ of \$1.00 = _____¢ [2]

20. Peter, Sam, and Mary shared a pizza. Peter and Sam each had $\frac{2}{5}$ of the pizza. How much pizza did Mary have? [2]

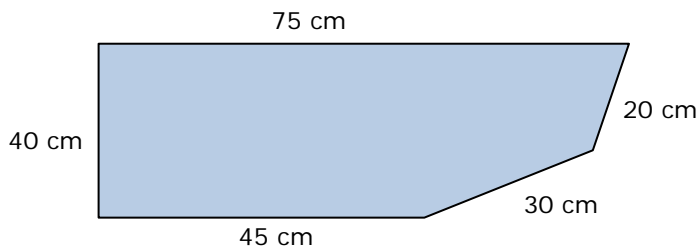
21. Melissa ate $\frac{2}{6}$ of a pie. Sara ate $\frac{1}{2}$ of the pie.

(a) Who ate a bigger portion of the pie? _____ [1]

(b) How much pie was left over? _____ [1]

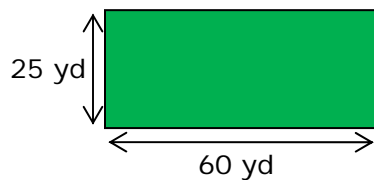
22. Alex has 2 quarters, 1 dime, and 2 nickels.
- (a) What fraction of his coins are quarters? _____ [1]
- (b) What fraction of a dollar does he have? _____ [1]

23.

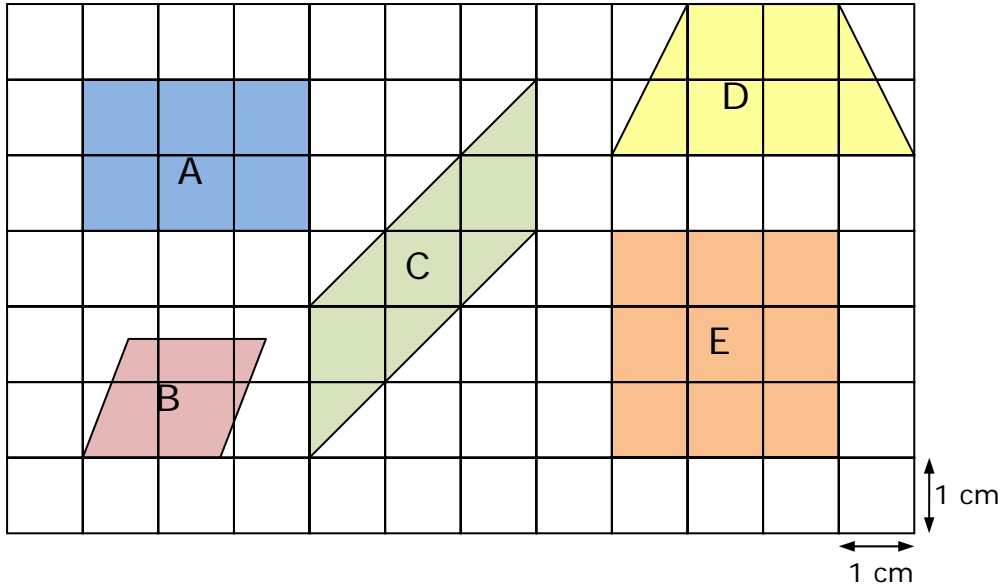


- (a) The perimeter of this figure is _____ m _____ cm [2]
- (b) What type of polygon is this figure? [1]
 quadrilateral pentagon hexagon octagon
- (c) The figure has _____ right angles, _____ angles [2]
 greater than a right angle, and _____ angles smaller than a
 right angle.

24. The length of a rectangular field is 60 yd and its width is 25 yd. [3]
 Sam ran around the field three times. How far did he run?



25. Each of these shapes is a quadrilateral.



(a) Which shapes are parallelograms? _____ [1]

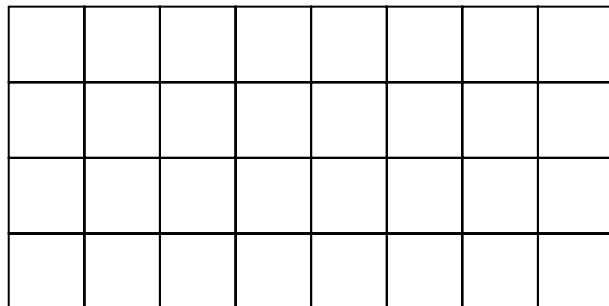
(b) Which shapes have the same area? _____ [1]
 What is that area? _____ cm².

(c) Which shapes are rhombuses? _____ [1]

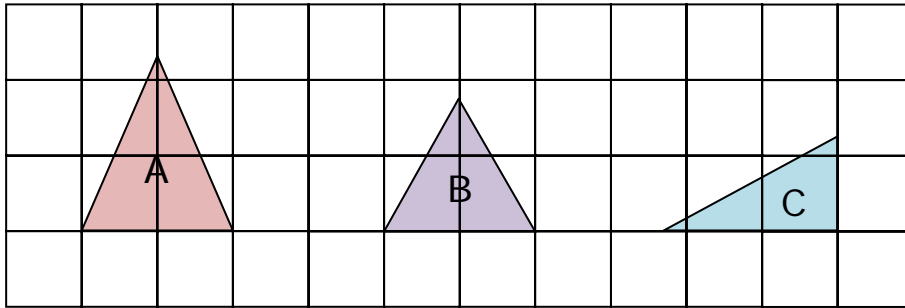
(d) Which shapes are a trapezoids? _____ [1]

(e) Write the name of the shape that has four equal angles and four equal sides. _____ [1]

(f) Draw another shape here with the same area as the rectangle but with a different perimeter. [2]

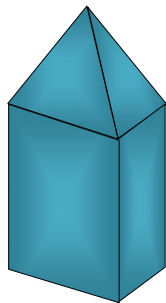


26.



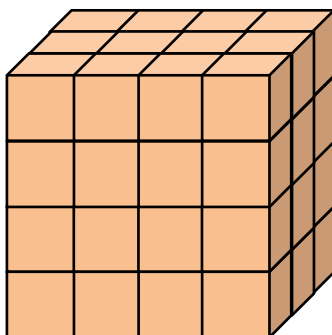
- (a) Are these triangles polygons? _____ [1]
- (b) Which triangle is equilateral? _____ [1]
- (c) Which triangle is isosceles? _____ [1]
- (d) Which triangle is scalene? _____ [1]
- (e) Which triangle is a right triangle? _____ [1]

27. Circle the names of the 2 shapes that make up this solid. [2]



- | | |
|----------|--------|
| Cube | Cone |
| Pyramid | Sphere |
| Cylinder | Prism |

28.



What is the volume of this solid? [2]

_____ cubic units

Answer Key

1. (a) gram (b) centimeter
(c) milliliter (d) liter
(e) meter
2. (a) gallon (b) mile
(c) pound (d) inch
(e) ounce
3. (a) > (b) <
(c) < (d) >
(e) < (f) =
4. (a) 1 m 55 cm (b) 1 kg 650 g
(c) 1 h 45 min (d) 2 yd 2 ft
(e) 9 ft 5 in. (f) 0 lb 11 oz
(g) 10 gal 2 qt (h) 5 h 5 min
5. B; 5 in.
6. 1 kg 800 g
7. 120 lb 10 oz
8. 1 m 40 cm
9. 10:50 a.m.
10. (a) \$1.75 (b) \$0.75
11. \$8.44
12. (a) \$16.05 (b) \$51.10
(c) \$46.20 (d) \$4.70
(e) \$12.00 (f) \$0.60
13. (a) \$59.78 (b) \$26.88
(c) \$97.30 (d) \$8.20
14. \$53.75
15. No
16. (a) 8; 6 (b) 2; 3
17. (a) $\frac{4}{5}$ (b) $\frac{5}{6}$
18. (a) $\frac{3}{5}$ (b) $\frac{1}{3}$
19. (a) $\frac{5}{7}$ (b) $\frac{7}{10}$
(c) 3 (d) 75
20. $\frac{1}{5}$
21. (a) Sara (b) $\frac{1}{6}$
22. (a) $\frac{2}{5}$ (b) $\frac{7}{10}$
23. (a) 2 m 10 cm (b) pentagon
(c) 2; 2; 1
24. 510 yd
25. (a) A, B, C, E (b) A, C, D; 6
(c) B, E (d) D
(e) square (f) check drawing
26. (a) yes (b) B
(c) A (d) C
(e) C
27. Pyramid, Prism
28. 48