Assessment Test for Singapore Primary Mathematics 5A
U.S. Edition

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

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1. Use the digits 1, 6, 4, 3, 9, 2, 1

    (a) Arrange these digits to make the greatest possible number.   [2]

         _____

    (b) Write the number in words.   [2]

         _____

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2. Estimate the value of

    (a) $6490 + 4993 \approx$ _____   [2]

    (b) $3721 \div 4 \approx$ _____   [2]

    (c) $4923 \times 7 \approx$ _____   [2]

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3. Find the value of

    (a) $6 + 2 \times 24 \div 8 - 12 =$ _____   [2]

    (b) $48 \div (10 - 4) \times 100 =$ _____   [2]

    (c) $12 + (10 + 2) \div (6 \times 2) - 3 =$ _____   [2]

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4. Solve.

   (a) 5492 x 98   (b) 3082 x 72   [4]

   (c) 2304 ÷ 24   (d) 2176 ÷ 68   [4]

5. Express in its simplest form.

   (a) $3\frac{5}{6} + 2\frac{9}{10}$ (b) $5\frac{1}{9} - 2\frac{2}{3}$ [4]

   (c) $\frac{3}{10} \times \frac{5}{6}$ (d) $\frac{9}{16} \div 6$ [4]

6. Find the equivalent measures

   (a) $4\frac{4}{5}$ min = _____ s   [2]

   (b) $7\frac{2}{3}$ days = _____ h   [2]

   (c) $2\frac{1}{5}$ m = _____ cm   [2]

7 Find the equivalent measures.

(a) $6\frac{1}{3}$ ft = _____ in. [2]

(b) $5\frac{3}{4}$ gal = _____ qt [2]

(c) $3\frac{5}{8}$ lb = _____ oz [2]

8. (a) What fraction of $2 is 75¢? _____ [2]

(b) What fraction of 4 lb is 8 oz? _____ [2]

(c) Express 8 months as a fraction of 2 years. _____ [2]

9. Express the ratio 16 : 20 in its simplest form. [2]

10. Write the missing number. [2]

30 : _____ = 6 : 3

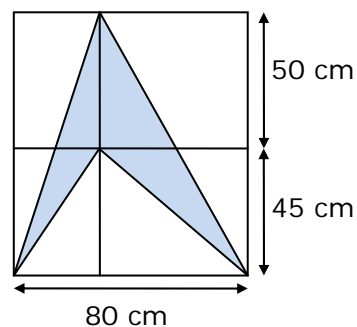| 11.	The figure is made up of a rectangle and a triangle. Let the base of the triangle be the side against the rectangle. If the ratio of the height of the triangle to the length of the rectangle is 1 : 3, what is the area of the figure?	[3]

9 cm

5 cm
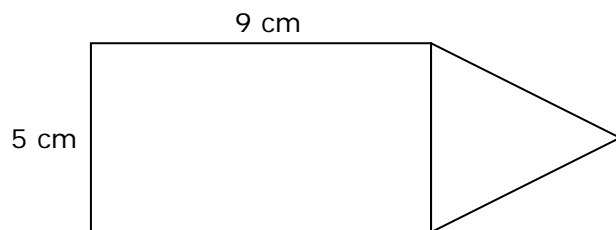
12.	Find the area of the shaded figures.	[6]

(a)

7 m

18 m

10 m

(b)

50 cm

45 cm

80 cm
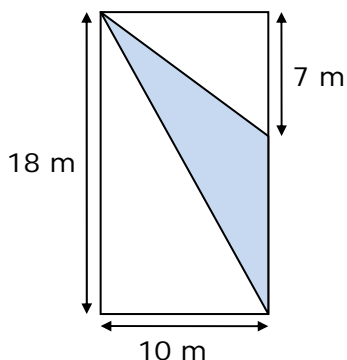
13.	Find the unknown marked angles (without measuring).	[4]

(a)

45°   a   30°

(b)

70°

b   25°
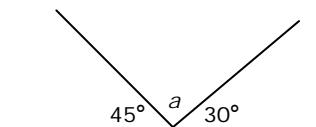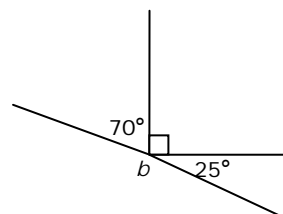
14. A pole, 135 cm long, is painted red, white, and blue in the ratio 3 : 4 : 2. What [4] length of the pole is painted white?

15. Cathy spent $\frac{4}{5}$ of her money while Josie spent $\frac{1}{2}$ of her money. Both of them had [4] the same amount of money left. If Josie had $35 left, how much did Cathy have at first?

16. Peter spent $\frac{1}{3}$ of his money on a toy car and $\frac{2}{3}$ of the remainder on a toy boat. [5] He had $6 left. How much money did he spend altogether?

17. A tank is $\frac{3}{5}$ full with water. If 30 liters more water are needed to fill the tank [5]
completely, find the capacity of the tank.

18. The area of the shaded rectangle is the same as the area of the shaded triangle. [5]
Find the perimeter of the rectangle. (Drawings are not to scale.)

24 cm

16 cm

36 cm
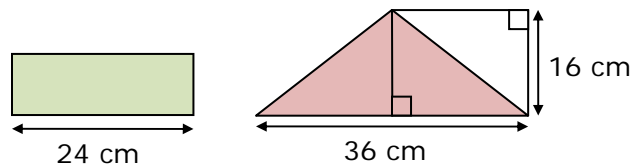
19. Sam bought 3 shirts and 2 pairs of pants for $67.30. Each pair of pants costs [5]
    $2.40 more than each shirt. What was the cost of 1 pair of pants?

20. Abe, Barry, and Carlos have 256 marbles altogether. The ratio of Abe's marbles [5]
    to Barry's marbles is 4 : 3. Barry has 14 more marbles than Carlos. How many
    marbles does Abe have?

Answer Key

1. (a) 9,643,211
   (b) nine million, six hundred forty-three thousand, two hundred eleven

2. (a) 11,000   (b) 900   (c) 35,000

3. (a) 0   (b) 800   (c) 10

4. (a) 538,216   (b) 221,904
   (c) 96   (d) 32

5. (a) $6\dfrac{11}{15}$ (b) $2\dfrac{4}{9}$

   (c) $\dfrac{1}{4}$ (d) $\dfrac{3}{32}$

6. (a) 288   (b) 184   (c) 220

7. (a) 76   (b) 23   (c) 58

8. (a) $\dfrac{3}{8}$ (b) $\dfrac{1}{8}$ (c) $\dfrac{1}{3}$

9. 4 : 5

10. 15

11. 52.5 cm^2

12. (a) 55 m^2 (b) 2000 cm^2

13. (a) 105°   (b) 175°

14. 60 cm

15. $175

16. $21

17. 75 liters

18. 72 cm

19. $14.90

20. 108