

## Placement Test for Singapore Primary Mathematics 5A

This test covers material taught in Primary Mathematics 5A

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Starred problems (\*) are for topics only in the US edition.

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]
	_____	
2.	Estimate the value of	
(a)	$6490 + 4993 \approx$ _____	[2]
(b)	$3721 \div 4 \approx$ _____	[2]
(c)	$4923 \times 7 \approx$ _____	[2]
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)  $5492 \times 98$

(b)  $3082 \times 72$

[4]

(c)  $2304 \div 24$

(d)  $2176 \div 68$

[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]

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\*7 Find the equivalent measures. [2]

(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]

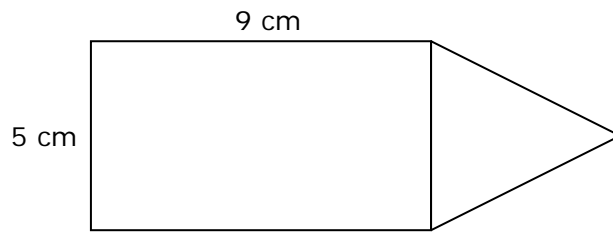
(c) Express 8 months as a fraction of 2 years. \_\_\_\_\_ [2]

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

10. Write the missing number. [2]

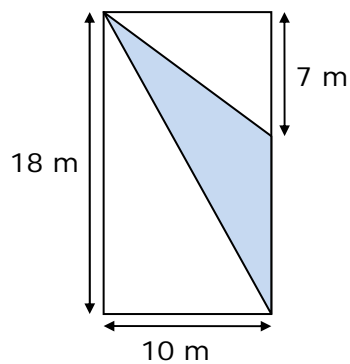
$30 : \underline{\hspace{2cm}} = 6 : 3$

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]

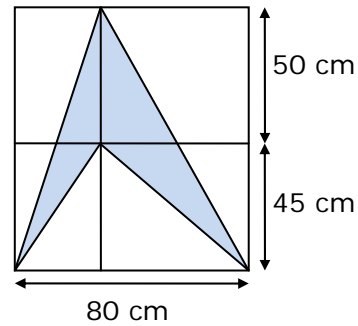


12. Find the area of the shaded figures. [6]

(a)

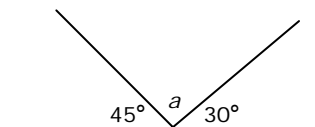


(b)

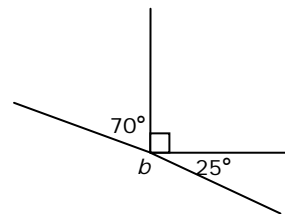


13. Find the unknown marked angles (without measuring). [4]

(a)



(b)



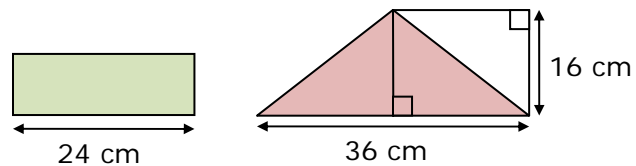
14. A pole, 135 cm long, is painted red, white, and blue in the ratio 3 : 4 : 2. What length of the pole is painted white? [4]

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

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

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

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



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

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

## 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)  $6\frac{11}{15}$                       (b)  $2\frac{4}{9}$   
(c)  $\frac{1}{4}$                               (d)  $\frac{3}{32}$
6. (a) 288                              (c) 184                      (d) 220
- \*7. (a) 76                              (b) 23                      (c) 58
8. (a)  $\frac{3}{8}$                               \*(b)  $\frac{1}{8}$                       (c)  $\frac{1}{3}$
9. 4 : 5
10. 15
11. 52.5 cm<sup>2</sup>
12. (a) 55 m<sup>2</sup>                      (b) 2000 cm<sup>2</sup>
13. (a) 105°                      (b) 175°
14. 60 cm
15. \$175
16. \$21
17. 75 liters
18. 72 cm
19. \$14.90
20. 108

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