# Assessment Test for Singapore Primary Mathematics 5A, 

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

1. Consider the number 49,752,003,096.
(a) Write the number in words.
(b) What is the place value of the digit 4 in this number? $\qquad$
(c) What digit is in the ten millions place?
(d) Round this number to the nearest billion. $\qquad$
(e) Is 49,752,030,096 greater than or smaller than this number? $\qquad$
By how much? $\qquad$
2. Round each number to the nearest hundred thousand and then estimate the value of
(a) $899,371+6,790,897$
(b) 5,296,003-742,851
[1]
3. Estimate the value of
(a) $492,396 \times 7$
(b) $3,899,465 \div 9$
(c) $8304 \times 480$
(d) $63,854 \div 830$
[2]
4. Write 84 as a product of its prime factors.
5. Find the value of
(a) $6 \times 10^{4}$
[1]
(b) $101 \times 10^{3}$
[1]
(c) $\quad 2^{3} \times 3^{2} \times 5^{2} \times 1^{8}$
[2]
6. Find the value of
(a) $6+2 \times 24 \div 8-12=$ $\qquad$ [1]
(b) $48 \div(10-4) \times 100=$ $\qquad$ [1]
(c) $12+(10+2) \div(6 \times 2)-3=$ $\qquad$ [2]
7. Find the missing numbers.
(a) $(38+5) \times 3=\left(38 \times \_\right)+\left(5 \times \_\right.$_ $)$
(b) $35 \times 7=(\ldots \times 7)+(5 \times 7)$
(c) $\left(\_\right) \times 6=(45 \times 6)-(3 \times 6)$
(d) $89 \times 4=(90 \times$ $\qquad$ ) - (1 $x$ $\qquad$
8. Solve using mental calculation.
(a) $498+372=$
(b) $501+845=$
(c) $534-398=$
(d) $700-82=$
[2]
(e) $99 \times 4=$
(f) $29 \times 80=$
(g) $25 \times 32=$
(h) $11 \times 12=$
[2]
9. Solve. Give your answer as a whole number or a mixed number.
(a) $389 \times 64$
(b) $6,497 \times 83$
[2]
(c) $2,304 \div 24$
(d) $2,176 \div 68$
[4]
(e) $22 \div 8$
(f) $4,576 \div 24$
10. Sam bought 3 shirts and 2 pairs of pants for $\$ 135$. Each pair of pants costs $\$ 15$ more than each shirt. What was the cost of 1 pair of pants?
11. Aaron saved twice as much money as Britney. Carlos saved $\$ 70$ more than Britney. If they saved $\$ 1,790$ altogether, how much did Carlos save?
12. Express the value of each of the following in its simplest form.
(a) $3 \frac{5}{6}+2 \frac{9}{10}$
(b) $5 \frac{1}{9}-2 \frac{2}{3}$
[2]
(c) $6 \times \frac{3}{4}$
(d) $\frac{3}{8}$ of 20
13. Express the value of each of the following in its simplest form.
(a) $6 \times 2 \frac{5}{6}$
(b) $\frac{3}{10} \times \frac{5}{6}$
(c) $2 \frac{3}{4} \times 1 \frac{1}{3}$
(d) $\frac{4}{5} \div 8$
[4]
(e) $\frac{9}{10} \div 6$
(f) $5 \div \frac{1}{4}$
(g) $6 \div \frac{3}{5}$
(h) $\frac{3}{4} \div \frac{5}{8}$
[4]
14. 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?
15. 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?
16. A tank is $\frac{3}{5}$ full with water. If 30 liters more water are needed to fill the tank [3] completely, find the capacity of the tank.
17. (a) How many pieces of string, each $\frac{1}{4}$ meters long, can be cut from a piece of string that is $\frac{7}{8}$ meters long?
(b) How many centimeters of string will be left over?
18. Find the area of a rectangle measuring 6 cm by $4 \frac{2}{3} \mathrm{~cm}$.
19. Find the shaded area of each rectangle.
(a)

12 in.
(b)

[4]
(c)

(d)

$A B$ is parallel to $C D$.
20. 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.)

21. Express the ratio $16: 20$ in its simplest form.
22. There are 24 students in class. 10 of them are boys. Find the ratio of the number of boys to the number of girls in class.
23. 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?
24. 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?

## Answer Key

1. (a) forty-nine billion, seven hundred fifty-two million, 3 thousand, ninety-six
(b) ten billion
(c) 5
(d) $50,000,000,000$
(e) greater than, by 27,000
2. (a) $7,700,000$
(b) 4,600,000
3. Accept reasonable estimates.
(a) 3,500,000
(b) 400,000
(c) $4,000,000$
(d) 80
4. $2 \times 2 \times 3 \times 7$
5. (a) 60,000
(b) 101,000
(c) 1,800
6. (a) 0
(b) 800
(c) 10
7. (a) $3 ; 3$
(b) 30
(c) 42
(d) $4 ; 4$
8. 

(a) 870
(b) 1,346
(c) 136
(d) 618
(e) 396
(f) 2,320
(g) 800
(h) 132
9. (a) 24,896
(b) 539,251
(c) 96
(d) 32
(e) $2 \frac{3}{4}$
(f) $190 \frac{2}{3}$
11. $\$ 500$
12. (a) $6 \frac{11}{15}$
(b) $2 \frac{4}{9}$
(c) $4 \frac{1}{2}$
(d) $7 \frac{1}{2}$
13. (a) 17
(b) $\frac{1}{4}$
(c) $3 \frac{2}{3}$
(d) $\frac{1}{10}$
(e) $\frac{3}{20}$
(f) 20
(g) 10
(h) $1 \frac{1}{5}$
14. $\$ 175$
15. $\$ 21$
16. 75 liters
17. (a) 3
(b) 12.5 cm
18. $28 \mathrm{~cm}^{2}$
19. (a) 102 in. $^{2}$
(b) $55 \mathrm{~m}^{2}$
(c) $2000 \mathrm{~cm}^{2}$
(d) $143 \mathrm{~cm}^{2}$
20. 72 cm
21. $4: 5$
22. 5:7
23. 60 cm
24. 108
10. $\$ 36$

