

# Assessment Test for Singapore Primary Mathematics 6A U.S. Edition

This test covers only material taught in Primary Mathematics 6A, U.S. Edition  
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|     |  |                      |
|-----|--|----------------------|
| 1.  | Simplify the following:  | [2]                  |
| (a) | $20a + 14 - 8a - 7$  | (b) $b + 6b - 2b$    |
| 2.  | Find the value of the expression when $n$ is 8.  | [2]                  |
| (a) | $150 - 2n^2$   | (b) $\frac{5n-7}{3}$ |
| 3.  | The average price of 3 shirts is \$12. One of the shirts costs \$ $p$ and a second shirt costs \$10. |                      |
| (a) | Express the price of the third shirt in terms of $p$ in the simplest form.                           | [2]                  |
| (b) | What is the price of the third shirt if $p$ is 13.50?  | [1]                  |
| 4.  | Amy is $x$ years old. Betty is 4 times as old as Amy. Carla is 3 years older than Betty.             |                      |
| (a) | Express Carla's age in years in terms of $x$ .   | [2]                  |
| (b) | If Amy is 2 years old, how old, in years, is Carla?  | [1]                  |

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5. Mrs. Wilson bought 4 bags of rice. She gave the cashier \$50 and received \$y change.

(a) Express the cost of one bag of rice in terms of  $y$ . [2]

(b) If  $y = 18.60$ , what is the cost of one bag of rice? [1]

6.  $\frac{1}{2}$  of Andy's money is  $\frac{3}{5}$  of Bob's money.

(a) Express Andy's money as a fraction of Bob's money. [2]

(b) If Andy has \$15 more than Bob, how much money do they have altogether? [1]

7. Mrs. Johnson mixed meat with potatoes in the ratio of 5 : 3 to make 4 kg of meat loaf. How much meat did she use? Give your answer in kilograms and grams. [3]

8. The ratio of Zoe's money to Yolanda's is 3 : 7. Yolanda has \$64 more than Zoe. [4]  
If Yolanda gives  $\frac{1}{4}$  of her money to Zoe, what will be the new ratio of Zoe's money to Yolanda's?

9. Mr. Olson had 16 L of paint. He used 3 L 250 ml to paint one wall and 80% of the remainder to paint another wall. How much paint did he have left? [3]

10. A fuel tank of a car is 80% full. After traveling some distance, only 30% of that fuel is left. The tank is then filled to its full capacity by putting in 19 gallons. [4]  
What is the full capacity of the tank?

11. 4,860 people visited a fair on Saturday. This was 20% more than the number of visitors on Friday. How many visitors were there on Friday? [4]

12. 30% of the beads in a jar are red. The rest are blue. If there are 500 more blue beads than red, how many beads are there altogether? [4]

13. A cyclist took 3 h to cycle from Town X to Town Y. His average speed was 12 km/h. If his average speed were increased by 3 km/h, how much time would he then take for the journey? Give your answer in hours and minutes. [4]

14. A motorist traveled from Town A to Town B. After traveling  $\frac{1}{3}$  of the distance for the journey at an average speed of 45 km/h, he continued to travel another 480 km to reach Town B. If his average speed for the entire journey was 54 km/h, what was his average speed for the last  $\frac{2}{3}$  of the distance? [4]

15. A car and a truck were traveling to Town Q at constant average speeds. The car overtook the truck when they were 420 km from Town Q. The car arrived at Town Q at 6:30 p.m. while the truck was still 120 km away from Town Q. The truck arrived at Town Q at 8:30 p.m. What was the average speed of the car? [4]

## Answer Key

1. (a)  $12a + 7$  (b)  $5b$
2. (a) 22 (b) 11
3. (a)  $\$(26 - p)$  (b) \$12.50
4. (a)  $(4x + 3)$  years (b) 11 years
5. (a)  $\$\left(\frac{50 - y}{4}\right)$  (b) \$7.85
6. (a)  $\frac{6}{5}$  (b) \$165
7. 2 kg 500 g
8. 19 : 21
9. 2 L 550 ml
10. 25 gal
11. 4050 visitors
12. 1250 beads
13. 2 h 24 min
14. 60 km/h
15. 84 km/h

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