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

This test covers only material taught in Primary Mathematics 6A, U.S. Edition
(http://www.singaporemath.com/)

1.	Simplify the following:	[2]

(a) $20a + 14 - 8a - 7$ (b) $b + 6b - 2b$

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2.   Find the value of the expression when n is 8.   [2]

(a) $150 - 2n^2$ (b) $\dfrac{5n - 7}{3}$

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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]

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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]

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

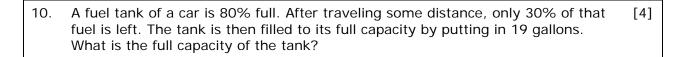   (a)   Express Andy's money as a fraction of Bob's money.   [2]

    (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. If Yolanda gives $\frac{1}{4}$ of her money to Zoe, what will be the new ratio of Zoe's money to Yolanda's?	[4]

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. What is the full capacity of the tank?	[4]

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 [4]

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?

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) $\$\left(\dfrac{50 - y}{4}\right)$ (b) $7.85

6. (a) $\dfrac{6}{5}$ (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