

# Assessment Test for Singapore Primary Mathematics 3A Common Core Edition

This test covers material taught in Primary Mathematics 3A, Common Core Edition  
(<http://www.singaporemath.com/>)

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|---|-----|
| 1. Fill in the blanks.  |     |
| (a) Nine thousand nineteen in standard form is _____.                             | [1] |
| (b) In 4,598, the digit _____ is in the hundreds place.                           | [1] |
| (c) 4,900 is _____ more than 4890.  | [1] |
| (d) The difference between 700 and 1,000 is _____.                                | [1] |
| (e) The sum of 400 and 800 is _____.  | [1] |
| (f) When 30 is divided by 4, the quotient is _____ and<br>the remainder is _____. | [1] |
| 2. Complete the following regular number patterns:                                | [1] |
| 4,623; 4,723; 4,823; _____; _____; _____  |     |
| 3. Write these numbers in order, beginning with the smallest:                     | [2] |
| 862            8,662            6,862            6,826                            |     |
| _____    _____    _____    _____  |     |
| 4. (a) Round 5,190 to the nearest thousand. _____                                 | [1] |
| (b) Round 8,485 to the nearest ten. _____   | [1] |
| (c) Round 3,968 to the nearest hundred. _____                                     | [1] |

5. Solve using mental math:

(a)  $250 + 70 = \underline{\hspace{2cm}}$                       (b)  $348 + 98 = \underline{\hspace{2cm}}$                       [2]

(c)  $580 + 95 = \underline{\hspace{2cm}}$                       (d)  $84 - 39 = \underline{\hspace{2cm}}$                       [2]

(e)  $230 - 50 = \underline{\hspace{2cm}}$                       (f)  $892 - 97 = \underline{\hspace{2cm}}$                       [2]

(g)  $300 - 189 = \underline{\hspace{2cm}}$                       (h)  $1,000 - 372 = \underline{\hspace{2cm}}$                       [2]

6. Estimate the value of  $896 + 438$  by rounding each number to the nearest hundred. Then find the exact sum.

(a)  $896 + 438$  is about  $\underline{\hspace{2cm}}$ .                      [1]

(b)  $896 + 438$  is exactly  $\underline{\hspace{2cm}}$ .                      [1]

7. Estimate, the value of  $762 - 334$  by rounding each number to the nearest hundred. Then find the exact difference.

(a)  $762 - 334$  is about  $\underline{\hspace{2cm}}$ .                      [1]

(b)  $762 - 334$  is exactly  $\underline{\hspace{2cm}}$ .                      [1]

8. Write an equation and solve. Draw a picture if you need to.

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(a) 15 more than \_\_\_\_\_ is 48. [2]

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(b) \_\_\_\_\_ less than 132 than is 80. [2]

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(c) 120 less than \_\_\_\_\_ than is 300. [2]

9. The difference between two numbers is 456. If the larger number is 854, what is the smaller number? [2]

10. There were 156 boys and girls at a park. 97 of them are girls. How many more girls than boys were there? [2]

11. Solve:

$$\begin{array}{r} 1, 3 4 6 \\ + 1 9 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2, 8 2 4 \\ + 3, 5 8 6 \\ \hline \end{array} \quad [2]$$

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$$\begin{array}{r} 7, 0 3 2 \\ - 5, 2 6 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9, 7 1 2 \\ - 5, 4 5 6 \\ \hline \end{array} \quad [2]$$

12. A computer costs \$1,430. A microwave oven is \$850 cheaper than the computer. Mr. Max bought both the computer and the microwave oven. How much did he pay? [2]

13.  $\bigcirc + \bigcirc + \bigcirc = 21$  [2]  
 $\star + \star + \star + \star = 36$   
Find the value of  $\star \times \bigcirc$ . \_\_\_\_\_.

14. Write  $>$ ,  $<$ , or  $=$  in each  $\bigcirc$ .

$$(a) \quad 4 \times 9 \bigcirc 136 - 88 \quad (b) \quad 0 \div 6 \bigcirc 6 \times 0 \quad [2]$$

$$(c) \quad 5 \times 9 \bigcirc 10 \times 4 \quad (d) \quad 2 \times 3 \bigcirc 35 \div 5 \quad [2]$$

$$(e) \quad (3 \times 2) + (4 \times 2) \bigcirc 6 \times 2 \quad [1]$$

$$(f) \quad 8 \times 4 \bigcirc (3 \times 4) + (5 \times 4) \quad [1]$$

15. Solve:

(a)  $7 \times 6 =$

(b)  $8 \times 7 =$

[2]

(c)  $9 \times 8 =$

(d)  $64 \div 8 =$

[2]

(e)  $49 \div 7 =$

(f)  $36 \div 9 =$

[2]

(i)  $600 \times 5 =$

(j)  $4,000 \div 8 =$

[2]

16. Write +, -, x, or  $\div$  in each  $\bigcirc$

(a)  $35 \bigcirc 5 = 40$

(b)  $7 \times 9 = 70 \bigcirc 7$

[2]

(c)  $2,400 \bigcirc 6 = 400$

(d)  $1 \bigcirc 432 = 432$

[2]

17. Fill in the blanks with a number to make each of the following true.

(a)  $40 \div \underline{\quad} = 4 \times 2$

(b)  $9 \times 0 = \underline{\quad} \times 6$

[2]

(c)  $\underline{\quad} \times 5 = 1,000$

(d)  $25 \times 7 = 20 \times 7 + \underline{\quad} \times 7$

[2]

18. Which of the following is the best estimate for the value of  $587 \times 8$ ? [1]  
(Do not find the actual answer.)

580      4,000      4,800      5,000

19. Which of the following is the best expression to use in order to estimate the value of  $4,387 \div 7$ ? [1]

$4,000 \div 7$        $4,300 \div 7$        $4,200 \div 7$        $4,400 \div 7$

20. A number is divided by 4. The quotient is 3 and the remainder is 2. [1]  
Is the number even or odd?

21. Multiply:

(a) 
$$\begin{array}{r} 281 \\ \times 4 \\ \hline \end{array}$$

(b) 
$$\begin{array}{r} 864 \\ \times 8 \\ \hline \end{array}$$
 [2]

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(c) 
$$\begin{array}{r} 606 \\ \times 7 \\ \hline \end{array}$$

(d) 
$$\begin{array}{r} 385 \\ \times 9 \\ \hline \end{array}$$
 [2]

22. Divide. Give the quotient and remainder if there is one.

(a) 
$$4 \overline{)99}$$

(b) 
$$8 \overline{)488}$$
 [2]

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(c) 
$$7 \overline{)813}$$

(d) 
$$9 \overline{)707}$$
 [2]

23. Fill in the boxes to complete the equations you would use to check your answer to 22(d) above. [1]

$$\begin{array}{r} \boxed{\phantom{000}} \\ \times \quad 9 \\ \hline \boxed{\phantom{000}} \end{array} \quad \nearrow \quad \begin{array}{r} \boxed{\phantom{000}} \\ + \quad 5 \\ \hline \boxed{\phantom{000}} \end{array}$$

24. There are 36 monkeys in a zoo. There are 6 times as many monkeys as tigers. How many more monkeys are there than tigers? [3]

25. Mrs. Merry had 197 stickers. She gave 7 stickers to each of the students in her class. She had fewer than 7 stickers left over. How many students does she have? [3]

26. A fruit seller had 936 oranges. 16 of them were rotten. He packed the rest into boxes of 8. How many boxes of oranges were there? [3]

27. What measuring unit would you use to measure the following? Fill in the blanks with centimeter, meter, or kilometer.

(a) The width of a piece of paper. \_\_\_\_\_ [1]

(b) The length of a swimming pool. \_\_\_\_\_ [1]

28. What measuring unit would you use to measure the following? Fill in the blanks with inch, foot, yard, or mile.

(a) The length of the Columbia River. \_\_\_\_\_ [1]

(b) The length of your foot. \_\_\_\_\_ [1]

29. Write  $>$ ,  $<$ , or  $=$  in each  $\bigcirc$

(a) 3 km 6 m  $\bigcirc$  3,600 m (b) 1 mile  $\bigcirc$  1 km [2]

(c) 4,070 cm  $\bigcirc$  4 m 70 cm (d) 1 yd 2 ft  $\bigcirc$  48 in. [2]

30. Fill in the blanks.

(a)  $5\text{ m} - 3\text{ m } 45\text{ cm} =$  \_\_\_\_\_ m \_\_\_\_\_ cm [1]

(b)  $6\text{ ft } 7\text{ in.} + 2\text{ ft } 10\text{ in.} =$  \_\_\_\_\_ ft \_\_\_\_\_ in. [1]



31. The length of board A is 3 ft 4 inches. The length of board B is 45 inches. Which is longer? How much longer? [2]

32. String A is 85 cm long. String B is twice as long. String C is 30 cm shorter than string B. How long is string C? Give your answer in meters and centimeters. [3]

## Answer Key

1. (a) 9,019 (b) 5  
(c) 10 (d) 300  
(e) 1,200 (f) 10  
(g) 230 (h) 7; 2
2. 4,923; 5,023; 5,123
3. 862; 6,826; 6,862; 8,662
4. (a) 5,000  
(b) 8,490  
(c) 4,000
5. (a) 320 (b) 446  
(c) 675 (d) 45  
(e) 180 (f) 795  
(g) 111 (h) 628
6. (a) 1,300  
(b) 1,334
7. (a) 500  
(b) 428
8. (a) 33  
(b) 52  
(c) 420
9. 398
10. 38
11. (a) 1,540 (b) 6,410  
(c) 1,772 (d) 4,256
12. \$2,010
13. 63
14. (a) < (b) =  
(c) > (d) <  
(e) >  
(f) =
15. (a) 42 (b) 56  
(c) 72 (d) 8  
(e) 7 (f) 4  
(g) 3,000 (h) 500
16. (a) + (b) -  
(c) ÷ (d) x
17. (a) 5 (b) 0  
(c) 200 (d) 5
18. 4,800
19.  $4,200 \div 7$
20. even
21. (a) 1,124 (b) 6,912  
(c) 4,242 (d) 3,465
22. (a) 24 R 3 (b) 61  
(c) 116 R 1 (d) 78 R 5
23. 
$$\begin{array}{r} 78 \\ \times 9 \\ \hline 702 \end{array} \quad \begin{array}{r} 702 \\ + 5 \\ \hline 707 \end{array}$$
24. 30 more monkeys
25. 28
26. 115
27. (a) centimeter  
(b) meter
28. (a) mile  
(b) inch
29. (a) < (b) <  
(c) > (d) =
30. (a) 1 m 55 cm  
(b) 9 ft 5 in.
31. B, 5 in.
32. 1 m 40 cm