

# Tennessee TCAP 2020 Grade 5 Math Practice

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## TCAP Math Reference Sheet—Grade 5

1 yard = 3 feet  
1 mile = 1,760 yards  
1 mile = 5,280 feet  
1 kilometer = 1,000 meters

1 pound = 16 ounces  
1 ton = 2,000 pounds  
1 kilogram = 1,000 grams

1 cup = 8 fluid ounces  
1 pint = 2 cups  
1 quart = 2 pints  
1 gallon = 4 quarts  
1 liter = 1,000 milliliters

# Tennessee Comprehensive Assessment Program TCAP

## Math Grade 5 | Practice Test



***Please PRINT all information in the box.***

Student Name: \_\_\_\_\_

Teacher Name: \_\_\_\_\_

School: \_\_\_\_\_

District: \_\_\_\_\_

**All practice test items represent the appropriate grade level/content standards—however, the practice test may contain item types that no longer appear on the operational assessment.**



1 What is  $3\frac{1}{8} + \frac{3}{4}$ ?

Enter your answer in the space provided.

2 What is the value of  $217 \times 33$ ?

Enter your answer in the space provided.



- 3** There are 4 ropes. Each one is  $3\frac{1}{4}$  feet long.

Select the **three** expressions that would give the total length of all the ropes.

**A.**  $3\frac{1}{4} + 3\frac{1}{4} + 3\frac{1}{4} + 3\frac{1}{4}$

**B.**  $4 \times \frac{13}{4}$

**C.**  $\frac{1}{4} \times 3\frac{1}{4}$

**D.**  $\frac{12}{4} + \frac{12}{4} + \frac{12}{4} + \frac{12}{4}$

**E.**  $\frac{13}{4} + \frac{13}{4} + \frac{13}{4} + \frac{13}{4}$

- 4** What is the value of the digit 7 when 2.7 is multiplied by  $10^2$ ?

**M.** 0.007

**P.** 0.07

**R.** 7

**S.** 70



5 What is the value of  $384 \div 16$ ?

- A. 64
- B. 38
- C. 24
- D. 23

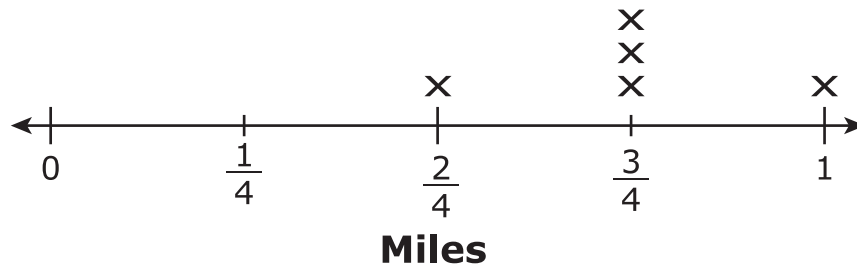
6 What is  $1\frac{3}{8} - \frac{3}{4}$ ?

Enter your answer in the space provided.



- 7 The line plot shows the distance, in miles, that Jenny walked on 5 different days.

### Distance Jenny Walks



What is the total distance Jenny walked, in miles?

Enter your answer in the space provided.



- 8 What is the sum of  $42.6 + 0.45 + 30.22$ ?

Enter your answer in the space provided.

- 9 Evaluate the expression.

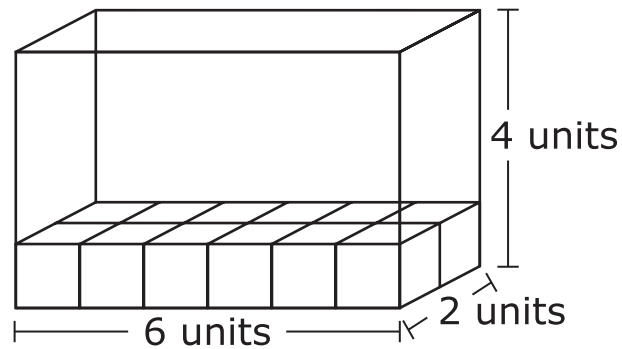
$$64 \div (15 - 5 + 12 \div 2) + 9 \times 2 - 1$$

Enter your answer in the space provided.





- 10** Jose is packing cube-shaped blocks in the box shown.



Which **two** expressions could be used to calculate the volume of the box, in cubic units?

- M.**  $6 \times 2$
- P.**  $12 \times 2$
- R.**  $12 \times 4$
- S.**  $6 + 2 + 4$
- T.**  $6 \times 2 \times 4$



- 11** Select the **three** numbers with values **less than** “twelve and thirteen hundredths.”
- A.** twelve and one hundred forty-six thousandths
  - B.** twelve and twenty-five thousandths
  - C.** twelve and five tenths
  - D.** 12.103
  - E.** 12.072
- 12** What is 2.078 rounded to the hundredths place?
- M.** 2.10
  - P.** 2.08
  - R.** 2.07
  - S.** 2.00



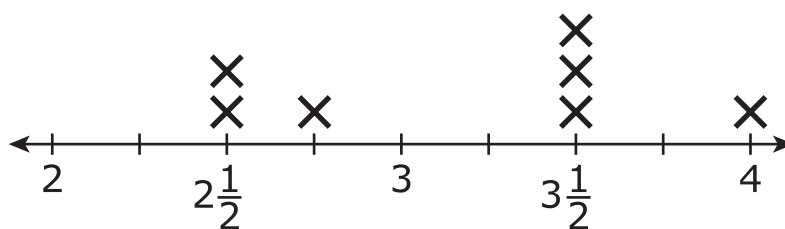
**This is the end of Subpart 1 of the Math Practice Test.  
Do not go on to the next page until told to do so.**



- 13** Carol has  $8\frac{3}{4}$  yards of material. She needs to use  $\frac{1}{3}$  of the material to make a dress. How many yards of material will she need to make the dress?

Enter your answer in the space provided.

- 14** The amounts of candy sold to seven customers are recorded on the line plot.



**Candy Sold (in pounds)**

What is the difference, in pounds, between the greatest amount and the least amount of candy sold?

- A.**  $1\frac{1}{2}$
- B.**  $1\frac{1}{4}$
- C.** 1
- D.**  $\frac{3}{4}$



- 15** A rectangular container has a square base with an area of 25 square inches. The container has a height of 4 inches. What is the volume, in cubic inches, of the container?

Enter your answer in the space provided.

- 16** Sari had  $\frac{3}{4}$  of a bag of pretzels. Her younger brother ate some, leaving her with  $\frac{1}{8}$  of a bag.

What fraction of the bag did Sari's brother eat?

**M.**  $\frac{4}{12}$

**P.**  $\frac{2}{4}$

**R.**  $\frac{5}{8}$

**S.**  $\frac{7}{8}$





- 19** John is building a stage for a school play. The stage is  $15\frac{1}{2}$  feet long and 20 feet wide. Select **all** options that represent the area of the stage, in square feet.

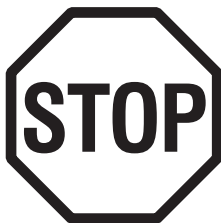
**A.**  $\frac{31}{2} \times \frac{1}{20}$

**B.**  $\frac{30}{2} \times 20$

**C.**  $\frac{31}{2} \times 20$

**D.** 300

**E.** 310



**This is the end of Subpart 2 of the Math Practice Test.  
Do not go on to the next page until told to do so.**



**20** Which shape would **always** be considered a rhombus?

- A.** square
- B.** rectangle
- C.** quadrilateral
- D.** parallelogram

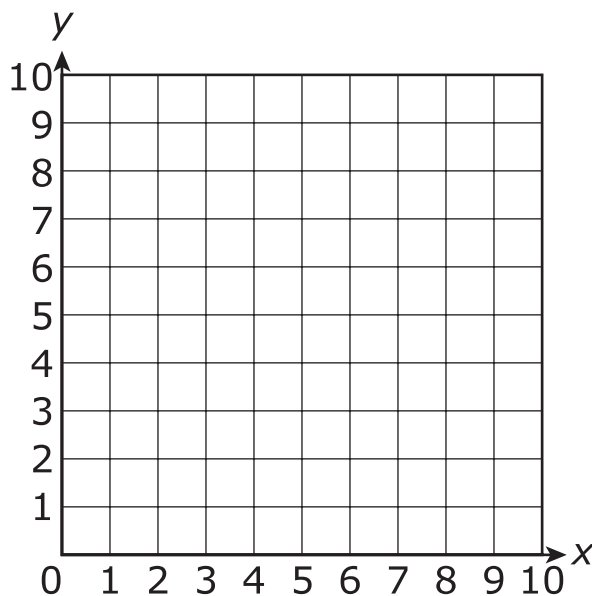
**21** The first layer of a rectangular prism is packed with 15 unit cubes. There are no spaces or gaps between the cubes. The prism is 3 unit cubes tall.

Which expression represents the volume of the rectangular prism?

- M.**  $15 \times 3$
- P.**  $15 + 3$
- R.**  $15 \times 3 \times 3$
- S.**  $15 \times 15 \times 3$



- 22** Graph the point (3,7) on the following coordinate grid.



- 23** There are 5 bags of jelly beans. Each bag is  $\frac{7}{8}$  full. Which expression can be used to represent the total amount of full bags of jelly beans?

- A.**  $7 \div (8 \times 5)$
- B.**  $(5 \times 7) \div 8$
- C.**  $8 \div (7 \times 5)$
- D.**  $6 \times (7 \div 5)$



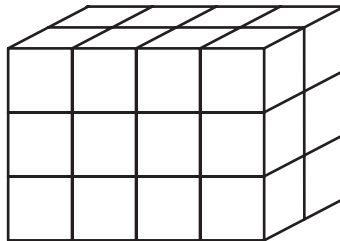


- 24** Which expression is the correct numerical form of the following statement?

“the quotient of 8 and 4, times 7, plus the difference of 38 and 15”

- M.**  $7 \times (4 \div 8) - (38 + 15)$
- P.**  $(4 \times 7) \div 8 + (38 - 15)$
- R.**  $(8 \times 4) \div 7 - (38 + 15)$
- S.**  $(8 \div 4) \times 7 + (38 - 15)$

- 25** Laney put unit cubes together to make this rectangular prism.



Which **two** expressions can be used to determine the volume, in cubic units, of Laney's prism?

- A.**  $4 + 3 + 2$
- B.**  $6 + 8 + 12$
- C.**  $8 + 8 + 8$
- D.**  $4 \times 3 \times 2$
- E.**  $6 \times 8 \times 12$



- 26 Mr. Brooks bought the amounts of clay listed for his class.

- 2.2 kilograms
- 1.5 kilograms
- 850 grams
- 700 grams

How many **grams** of clay did Mr. Brooks buy?

Enter your answer in the space provided.

- 27 Find the sum.

$$1\frac{1}{4} + \frac{5}{6}$$

Enter your answer in the space provided.



- 28** What is 473.69 rounded to the nearest whole number?

Enter your answer in the space provided.

- 29** A cup is filled with new, unsharpened pencils. The teacher sharpened  $\frac{1}{4}$  of them. A student sharpened  $\frac{2}{3}$  of them. What fraction of the pencils still needs to be sharpened?

**M.**  $\frac{11}{12}$

**P.**  $\frac{8}{12}$

**R.**  $\frac{3}{12}$

**S.**  $\frac{1}{12}$



**This is the end of the test.**

## Subpart 1 Practice Test Questions

1.  $3\frac{7}{8}$  or equivalent

2. 7161

3. ☒ ☒ ☐ ☐ ☒ (select **three**)

4. ☐ ☐ ☐ ☒

5. ☐ ☐ ☒ ☐

6.  $\frac{5}{8}$  or equivalent

7.  $3\frac{3}{4}$  or equivalent

8. 73.27

9. 21

10. ☐ ☐ ☒ ☐ ☒ (select **two**)

11. ☐ ☒ ☐ ☒ ☒ (select **three**)

12. ☐ ☒ ☐ ☐

### Subpart 2 Practice Test Questions

13.

$2\frac{11}{12}$  or equivalent

14.

☒ (B) (C) (D)

15.

100

16.

(M) (P) ☒ (S)

17.

(A) ☒ (C) (D)

18.

(M) (P) ☒ (S)

19.

(A) (B) ☒ (D) ☒ (Select **all** that apply.)

### Subpart 3 Practice Test Questions

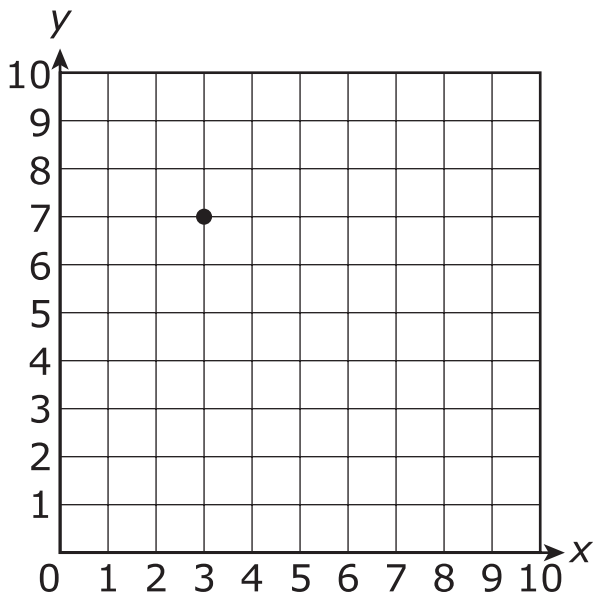
20.

☒ (B) (C) (D)

21.

☒ (P) (R) (S)

22.



23.

(A) ☒ (C) (D)

24.

(M) (P) (R) ☒

25. ☐ A ☐ B ☒ ☒ ☐ E (select **two**)

26. 

5250

27. 

$\frac{25}{12}$  or equivalent

28. 

474

29. ☐ M ☐ P ☐ R ☒

## TNReady Practice Test Standards Alignment and Key – Grade 5

Subpart 1	Key	Standard
1	$3\frac{7}{8}$ or equivalent	5.NF.A.1
2	7161	5.NBT.B.5
3	A, B, E	5.NF.B.6
4	S	5.NBT.A.2
5	C	5.NBT.B.6
6	$\frac{5}{8}$ or equivalent	5.NF.A.1
7	$3\frac{3}{4}$ or equivalent	5.MD.B.2
8	73.27	5.NBT.B.7
9	21	5.OA.A.1
10	R and T	5.MD.C.5a
11	B, D, E	5.NBT.A.3
12	P	5.NBT.A.4
<b>Subpart 2</b>		
13	$2\frac{11}{12}$ or equivalent	5.NF.B.6
14	A	5.MD.B.2
15	100	5.MD.C.5b
16	R	5.NF.A.2
17	B	5.MD.A.1
18	R	5.MD.C.5c
19	C, E	5.NF.B.6
<b>Subpart 3</b>		
20	A	5.G.B.3
21	M	5.MD.C.5a
22	point plotted at (3, 7)	5.G.A.1
23	B	5.NF.B.4a
24	S	5.OA.A.2
25	C, D	5.MD.C.5
26	5250	5.MD.A.1
27	$\frac{25}{12}$ or equivalent	5.NF.A.1
28	474	5.NBT.A.4
29	S	5.NF.A.2