
Tennessee Comprehensive Assessment Program
TCAP

TNReady — Grade 6 Math Part I

PRACTICE TEST

Student Name

Teacher Name



Tennessee Department of Education



Directions

This Practice Test booklet contains sample items for Grade 6 Math. Write your answers in this Practice Test booklet.

You MAY use a calculator with all test items in this test booklet.

Sample A: Selected-Response

Circle **all** expressions equivalent to $4(9 + 3)$.

- A. $4(12)$
- B. $36 + 3$
- C. $36 + 12$
- D. $4 + (9 + 3)$
- E. $(9 + 3) + (9 + 3) + (9 + 3) + (9 + 3)$

Sample B: Table

Select **True** or **False** to indicate whether each comparison is true.

	True	False
$3^2 < \frac{4}{9} + \frac{2}{3}$		
$2(2^3 + 14 \cdot 2) \geq 9 \cdot 8$		
$16.2 \cdot 3 - 24.6 < 72 \div 3 + 2.78$		

Sample Answers

- A. A, C, E
- B. False, True, True



1. At a bake sale, plates of cookies, p , are sold for \$5 each. The amount of money from the sale of cookies is expressed as dollars, d . Which equation represents the earnings of the bake sale?

Plates of Cookies (p)	Earnings (d)
1	5
2	10
3	15
4	20

- A. $p = 5d$
- B. $d = p + 5$
- C. $d = \frac{p}{5}$
- D. $d = 5p$
2. The table shows the number of hours Emma babysat and her earnings.

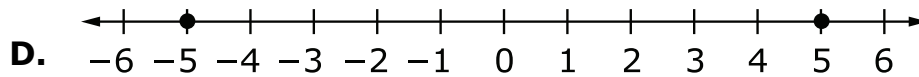
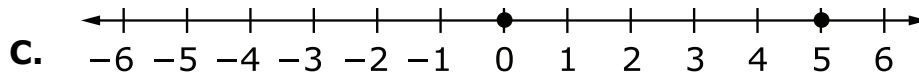
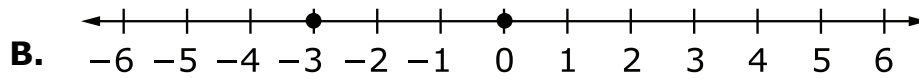
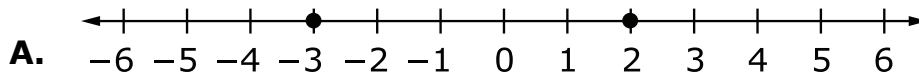
Hours	Earnings
3	\$12
5	\$20
7	?
9	\$36

How much did Emma earn when she babysat for 7 hours?

- A. \$22
- B. \$24
- C. \$28
- D. \$32



3. Circle the number line on which a number and its opposite are plotted.



4. Brandon has \$50 in his savings account. He plans to deposit \$20 into his savings account each month. Select **all** expressions that could be used to find the amount of money Brandon will have in his savings account after x months of making deposits.

A. $20x - 50$

B. $20x + 50$

C. $20 + 50x$

D. $20 + 50 + x$

E. $50 + 20x$



5. What is the distance between the points $(11, -7)$ and $(2, -7)$ on a coordinate plane, in units?
- A. 13
 - B. 9
 - C. 5
 - D. 0
6. Brian paid \$27 for 12 gallons of gasoline. To the nearest cent, how much did one gallon of gasoline cost?
- A. \$0.44
 - B. \$2.00
 - C. \$2.25
 - D. \$15.00



7. The table below lists the number of gallons of gas required to drive the given number of miles for four different cars.

Car	Miles Driven	Gallons of Gas
A	416	13
B	544	16
C	665	19
D	775	25

Part A

What is the unit rate for each car, in miles per gallon?

Car A	<input type="text"/>	Car B	<input type="text"/>
Car C	<input type="text"/>	Car D	<input type="text"/>

Part B

Which car uses the **least** amount of gas?

- A. Car A
- B. Car B
- C. Car C
- D. Car D

Part C

Car A is traveling from Memphis, TN, to Johnson City, TN, and then returning. The distance is 496 miles each way. How many gallons of gas will Car A need to make the round trip?

Part D

Gas costs an average of \$2.12 per gallon. How much will be spent on gas for the trip for Car A?

Part E

If Car A has an average speed of 68 miles per hour, how many hours of driving time will the round trip require? Round your answer to the nearest hour.



8. Arianna has fabric that is $\frac{3}{4}$ yard long. She needs to cut the fabric into pieces that are $\frac{1}{8}$ yard long. How many $\frac{1}{8}$ -yard-long pieces will she have?

Write your answer in the space provided.

9. What is the value of $1500 \div (6^2 + 4^3) \bullet 37$?

10. What is the value of $6(x + 15) - 12$ when $x = 12$?



- 11.** Select the value of r that makes $8r = 24$ true.
- A.** $\frac{1}{3}$
 - B.** 3
 - C.** 16
 - D.** 32
- 12.** Sandra earns \$380 for working 20 hours. How much does she earn per hour?
- A.** \$360
 - B.** \$190
 - C.** \$19
 - D.** \$18