Tennessee Comprehensive Assessment Program

TCAP

Math Grade 6 Item Release





TN0018329_4

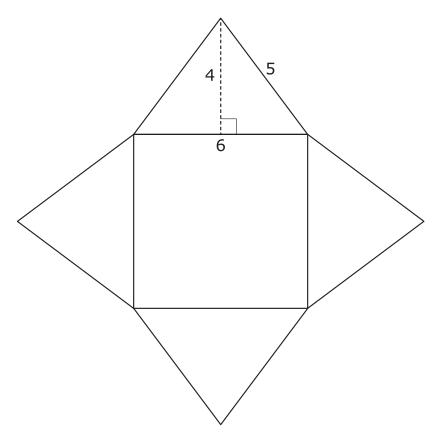
00. The data shown will be placed on a dot plot.

Which statement **best** describes the shape of the distribution?

- **A.** The data will be fairly evenly distributed.
- **B.** The data will be clustered to the left.
- **C.** The data will be clustered in the center.
- **D.** The data will be clustered to the right.

TN0022364_1

00. The net of a square pyramid is shown.



What is the surface area, in square units, of the square pyramid formed by folding the net?

- **A.** 84
- **B.** 96
- **C.** 120
- **D.** 132

TN0025844_3

- **00.** For which pair of numbers is the least common multiple the same as the product of the two numbers?
 - **A.** 6 and 8
 - **B.** 12 and 4
 - **C.** 11 and 6
 - **D.** 4 and 8

TN0069107_1,4

- **00.** Which expressions are equivalent to 6 + x + 10x? Select the **two** that are equivalent.
 - **A.** 2(5x+3)+x
 - **B.** 2(5x+3)
 - **C.** 2x(3+5)
 - **D.** 11x + 6
 - **E.** 16*x*

TN0069145_4

- **00.** Which inequality is true when x = 0.5 and y = 5?
 - **A.** $4xy \ge 11.5$
 - **B.** 9y + x > 45.5
 - **C.** y 2x < 3
 - **D.** $7xy \le 18$

TN0069158_3

- **00.** The Math Club wants to earn at least \$50 in order to attend a competition by selling candy bars.
 - The club spends \$15 to buy candy bars to sell.
 - The club will sell each candy bar for \$1.

Which inequality can the club use to find x, the number of candy bars they need to sell in order to meet their goal?

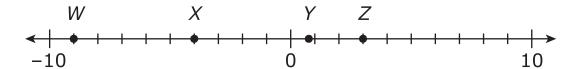
- **A.** $x 15 \le 50$
- **B.** $x + 15 \le 50$
- **C.** $x 15 \ge 50$
- **D.** $x + 15 \ge 50$

TN0069169_2,4

- **00.** Select the **two** expressions equivalent to (56 + 72).
 - **A.** 9(6+8)
 - **B.** 8(7+9)
 - **C.** 3(18 + 22)
 - **D.** 4(14+18)
 - **E.** 4(14 + 72)

TN0069189_3

00. Which statement is true about the numbers represented by the points on the number line?



- **A.** Point *X* has a greater absolute value than point *W*.
- **B.** Point *Y* has a greater absolute value than point *X*.
- **C.** Point *W* has the greatest absolute value of the points on the number line.
- **D.** Point Z has the greatest absolute value of the points on the number line.

TN0069195 2

- **00.** Which statement correctly describes a unit rate?
 - **A.** Emily pays \$1 for 5 drinks. The unit rate is \$5 per drink.
 - **B.** Alan pays \$8 for 4 pencils. The unit rate is \$2 per pencil.
 - **C.** Karen pays \$12 for 3 muffins. The unit rate is \$15 per muffin.
 - **D.** Roberto pays \$24 for 12 gallons of gas. The unit rate is \$12 per gallon.

TN0069204_4

00. There are 500 students at a middle school. Of these students, 350 will attend a dance.

What percentage of the students at this school will attend the dance?

- **A.** 15%
- **B.** 30%
- **C.** 35%
- **D.** 70%

TN0069220_1,3

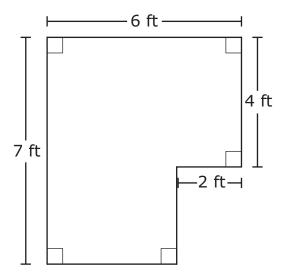
00. The list shows the number of points a football team scored each game for 16 games.

Which **two** statements about this list are true?

- **A.** The median is greater than the mean.
- **B.** The mean is greater than the median.
- **C.** The range is greater than the median.
- **D.** The median is greater than the range.
- **E.** The range, mean, and median are all the same value.

TN0069269_3

00. The figure shows the dimensions of a closet floor.



What is the area, in square feet, of the closet floor?

- **A.** 19
- **B.** 24
- **C.** 36
- **D.** 42

TN175400_1

00. Marianna is trying to compute $1\frac{3}{4} \div \frac{7}{8}$.

Which statement shows the correct value and justification?

- **A.** 2 because $2 \times \frac{7}{8} = 1\frac{3}{4}$
- **B.** 2 because $2 \times \frac{8}{7} = 1\frac{3}{4}$
- **C.** $\frac{1}{2}$ because $\frac{1}{2} \times \frac{7}{8} = 1\frac{3}{4}$
- **D.** $\frac{1}{2}$ because $\frac{1}{2} \times \frac{8}{7} = 1\frac{4}{3}$

TN175527_1

00. Raven plays on a basketball team. She earns 1 point for each free throw basket she makes.

Which equation represents the relationship between the number of free throw baskets Raven makes, b, and the number of points she earns, p?

- **A.** p = b
- **B.** $b = \frac{1}{p}$
- **C.** p = 1 + b
- **D.** b = 1 + p

TN191936_3

- **00.** Which expression shows "subtract five from the quotient of 15 and a number"?
 - **A.** $5 \frac{15}{n}$
 - **B.** 5 15*n*
 - **C.** $\frac{15}{n} 5$
 - **D.** 15n 5

Metadata- Math

Items

Page Number	UIN	Grade	Item Type	Key	рок	TN Standards	Calculator
4	TN0018329	06	MC	D	2	6.SP.A.2	Y
5	TN0022364	06	MC	A	2	6.G.A.4	Y
6	TN0025844	06	MC	С	2	6.NS.B.4	Y
7	TN0069107	06	MS	A,D	1	6.EE.A.4	N
8	TN0069145	06	MC	D	2	6.EE.B.5	Y
9	TN0069158	06	MC	С	1	6.EE.B.8	Y
10	TN0069169	06	MS	B,D	2	6.NS.B.4	N
11	TN0069189	06	MC	С	2	6.NS.C.7c	N
12	TN0069195	06	MC	В	1	6.RP.A.2	Y
13	TN0069204	06	MC	D	2	6.RP.A.3c	N
14	TN0069220	06	MS	A,C	2	6.SP.B.5c	Υ
15	TN0069269	06	MC	С	2	6.G.A.1	Υ
16	TN175400	06	MC	Α	3	6.NS.A.1	Υ
17	TN175527	06	MC	Α	2	6.EE.C.9a	N
18	TN191936	06	MC	С	2	6.EE.A.2a	Υ

Metadata Definitions:

UIN	Unique letter/number code used to identify the item.		
Grade	Grade level or Course.		
Item Type	Indicates the type of item. MC= Multiple Choice; MS= Multiple Select		
Кеу	Correct answer. This may be blank for constructed response items where students write or type their responses.		
DOK	Depth of Knowledge (cognitive complexity) is measured on a three-point scale. 1 = Recall or simple reproduction of information; 2 = Skills and concepts: comprehension and processing of text; 3 = Strategic thinking, prediction, elaboration.		
TN Standards	Primary educational standard assessed.		
Calculator	Y for items that permit calculator use.		