

Tennessee Comprehensive Assessment Program

TCAP

Math Grade 3 Item Release



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Here is a number pattern.

3, 9, 15, 21, ...

Which expression could be used to find the next number in the pattern?

- ☐ A 3×5
- ☐ B 3×8
- ☐ C $21 + 3$
- ☐ D $21 + 6$

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Maxine buys 5 packages of pins. There are 50 pins in each package.

What is the total number of pins Maxine buys?

- ☐ A 10
- ☐ B 55
- ☐ C 250
- ☐ D 550

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A total of 10 children are on 2 teams. An equal number of children are on each team.

Which expression could be used to find the number of children on each team?

- Ⓐ $10 - 2$
- Ⓑ $10 + 2$
- Ⓒ 10×2
- Ⓓ $10 \div 2$

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Which quotients are equal to 4? Choose the **two** correct answers.

☐ A $45 \div 9$

☐ B $32 \div 8$

☐ C $28 \div 4$

☐ D $24 \div 3$

☐ E $16 \div 4$

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Joan bought a total of 52 plants for her garden. She bought 9 boxes with 4 plants in each box. Joan also bought some single plants.

Which equation can be used to find the number of single plants, n , that Joan bought?

☐ A $52 = 36 + n$

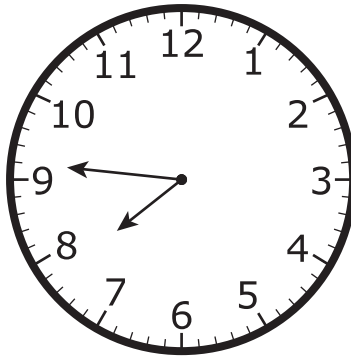
☐ B $52 + 36 = n$

☐ C $52 = 36 \times n$

☐ D $52 - 13 = n$

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Here is a clock.



What time is shown on the clock?

- (A) 7:09
- (B) 7:44
- (C) 7:46
- (D) 8:46

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Which of these shows another way to find the value of $4 \times (8 + 1)$?

- ☐ A $4 \times 8 \times 1$
- ☐ B $4 \times 8 \times 9$
- ☐ C $(4 \times 8) + (4 \times 1)$
- ☐ D $(4 \times 8) + (4 \times 9)$

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A hexagon has these side lengths.

- 2 sides that are each 4 inches long
- 4 sides that are each 2 inches long

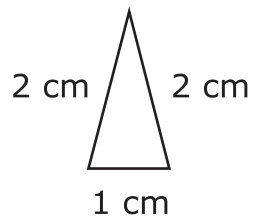
What is the perimeter in inches of the hexagon?

- Ⓐ 6
- Ⓑ 12
- Ⓒ 16
- Ⓓ 24

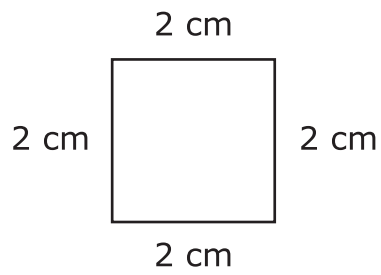
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Which shape is a rhombus?

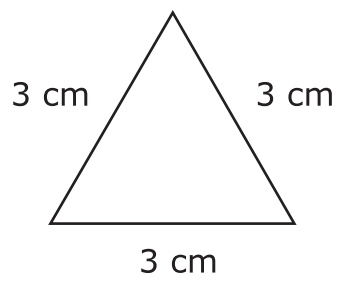
Ⓐ



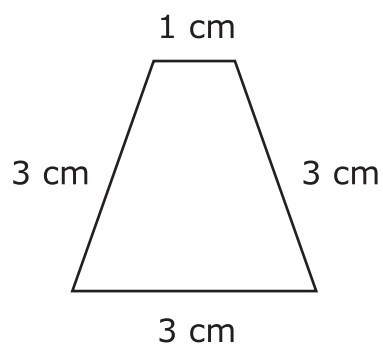
Ⓑ



Ⓒ



Ⓓ



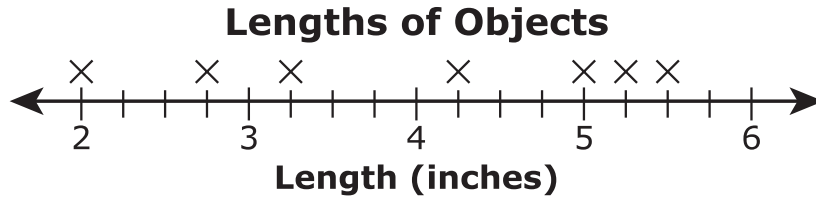
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Janice measures the lengths of 8 objects on her desk to the nearest quarter inch (in.). Here are the lengths.

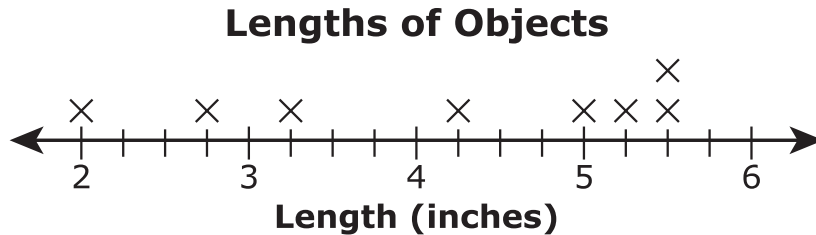
| | | | | | | | |
|--------------------|--------------------|--------------------|-------|-------|--------------------|--------------------|--------------------|
| $2\frac{3}{4}$ in. | $5\frac{1}{2}$ in. | $5\frac{1}{2}$ in. | 2 in. | 5 in. | $5\frac{1}{4}$ in. | $3\frac{1}{4}$ in. | $4\frac{1}{4}$ in. |
|--------------------|--------------------|--------------------|-------|-------|--------------------|--------------------|--------------------|

Which line plot represents all of the information listed?

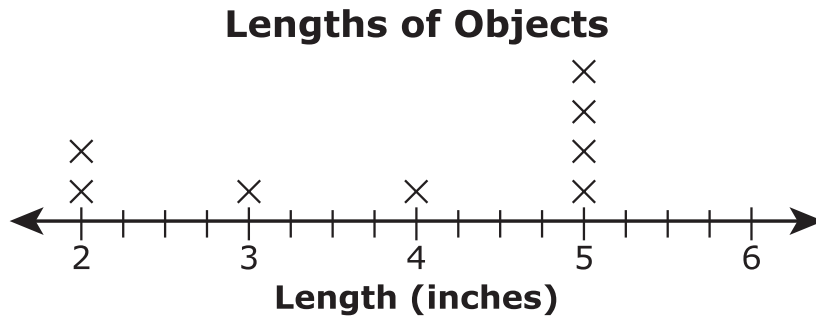
(A)



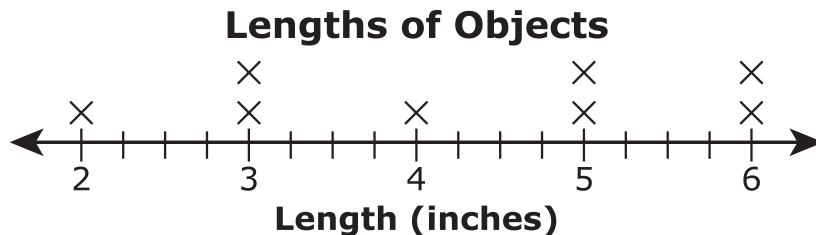
(B)



(C)



(D)



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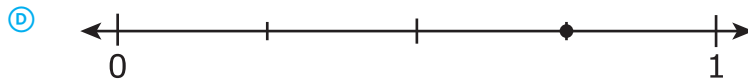
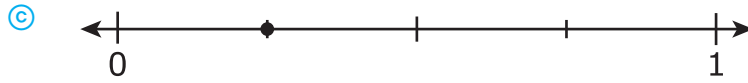
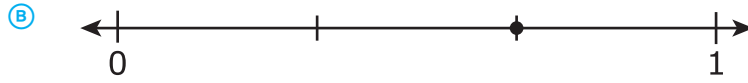
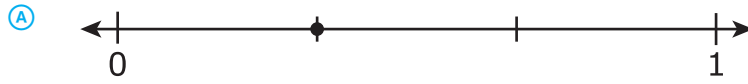
Desmond made a rectangle using 17 tiles. Each tile is a unit square.

What is the area, in square units, of the rectangle?

- ☐ A 16
- ☐ B 17
- ☐ C 32
- ☐ D 34

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Which number line has a point that shows $\frac{1}{3}$?



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A point is shown on this number line.



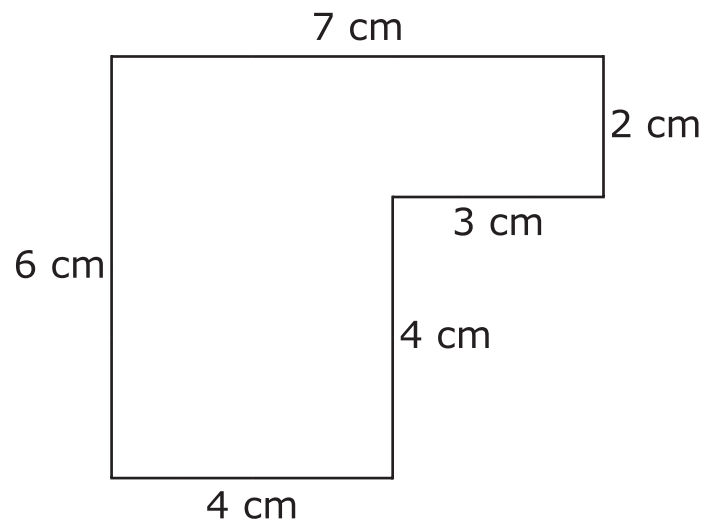
Which fractions does the point represent?

Choose the **two** correct answers.

- (A) $\frac{1}{4}$
- (B) $\frac{2}{4}$
- (C) $\frac{2}{3}$
- (D) $\frac{4}{6}$
- (E) $\frac{4}{8}$
- (F) $\frac{5}{8}$

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This shape is made of rectangles. The sides of the shape are measured in centimeters (cm).



What is the area, in square centimeters, of the shape?

- (A) 26
- (B) 30
- (C) 38
- (D) 42

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Which numbers round to 200 when rounded to the nearest hundred?

Choose the **three** correct answers.

- ☐ A 215
- ☐ B 146
- ☐ C 243
- ☐ D 151
- ☐ E 278

Metadata- Math

Items

| Page Number | UIN | Grade | Item Type | Key | DOK | TN Standards | Calculator |
|-------------|-----------|-------|-----------|-------|-----|--------------|------------|
| 4 | TN0002781 | 03 | MC | D | 2 | 3.OA.D.9 | Y |
| 5 | TN0025589 | 03 | MC | C | 2 | 3.NBT.A.3 | Y |
| 6 | TN0025595 | 03 | MC | D | 1 | 3.OA.A.2 | Y |
| 7 | TN0025627 | 03 | MS | B,E | 2 | 3.OA.C.7 | N |
| 8 | TN0025641 | 03 | MC | A | 2 | 3.OA.D.8 | Y |
| 9 | TN0025657 | 03 | MC | C | 2 | 3.MD.A.1 | N |
| 10 | TN0032364 | 03 | MC | C | 1 | 3.OA.B.5 | N |
| 11 | TN0073233 | 03 | MC | C | 2 | 3.MD.D.8 | Y |
| 12 | TN0073234 | 03 | MC | B | 1 | 3.G.A.1 | Y |
| 13 | TN0073252 | 03 | MS | B | 2 | 3.MD.B.4 | Y |
| 14 | TN174821 | 03 | MC | B | 1 | 3.MD.C.5b | N |
| 15 | TN174887 | 03 | MC | A | 1 | 3.NF.A.2a | N |
| 16 | TN174894 | 03 | MS | B,E | 2 | 3.NF.A.3a | Y |
| 17 | TN332870 | 03 | MC | B | 2 | 3.MD.C.7d | Y |
| 18 | TN832587 | 03 | MS | A,C,D | 1 | 3.NBT.A.1 | Y |

Metadata Definitions:

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|---------------------|--|
| 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 |
| Key | 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. |