

Tennessee TCAP 2023  
Grade 4 Math

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# Tennessee Comprehensive Assessment Program

# TCAP

## Math Grade 4 Item Release



\*Standards implemented from 2023-24 Tennessee Academic Standards for Math

- 00.** Find the difference.

Enter your answer in the space provided.

$$8,241 - 5,573 =$$

**00.** Which statement correctly describes the equation?

$$4 \times 6 = 24$$

- A.** 24 is 6 more than 4.
- B.** 24 is 6 times as many as 4.
- C.** 4 and 6 more is 24.
- D.** 4 is 6 times as many as 24.

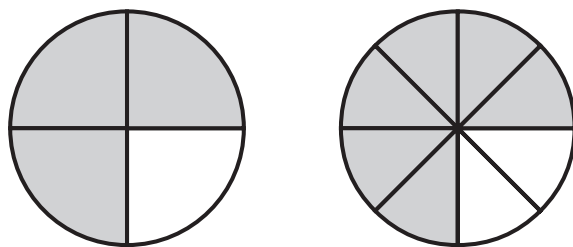
TN032911\_4

- 00.** Ryan is 20 years old. His sister is 5 years old.

How many times older is Ryan than his sister?

Enter your answer in the space provided.

00. The shaded portion of each circle represents a fraction of the whole circle.



Which equation **best** shows why the first fraction is equivalent to the second fraction?

- A.  $\frac{3}{4} = \frac{3 \times 2}{4 \times 2} = \frac{6}{8}$
- B.  $\frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$
- C.  $\frac{6}{8} = \frac{6 \times 2}{8 \times 2} = \frac{12}{16}$
- D.  $\frac{3}{4} = \frac{3 \times 1}{4 \times 1} = \frac{6}{8}$

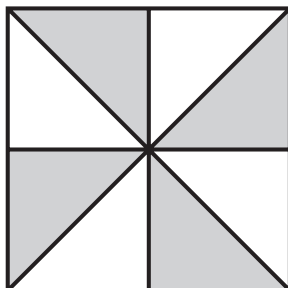
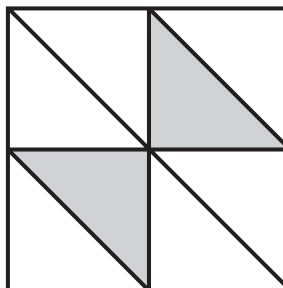
00. This model represents the fraction  $\frac{3}{6}$ .



Which fraction is **greater** than  $\frac{3}{6}$ ?

- A.  $\frac{1}{3}$
- B.  $\frac{1}{2}$
- C.  $\frac{4}{8}$
- D.  $\frac{3}{4}$

- 00.** A store sells two different patterns of floor tiles. The tiles have gray and white triangular parts, as shown.

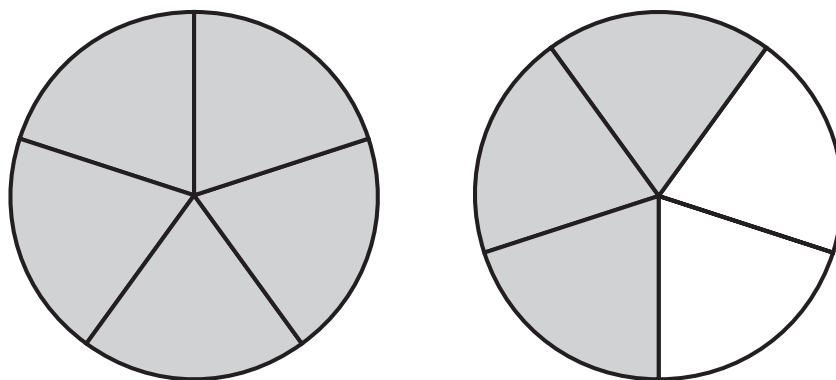
**Tile 1****Tile 2**

What is the difference between the fraction of Tile 1 that is gray and the fraction of Tile 2 that is gray?

- A.**  $\frac{6}{16}$
- B.**  $\frac{2}{16}$
- C.**  $\frac{6}{8}$
- D.**  $\frac{2}{8}$



00. The model shown is shaded to represent the fraction  $\frac{8}{5}$ .



Which expression also represents  $\frac{8}{5}$ ?

- A.  $\frac{5}{5} \times \frac{3}{5}$
- B.  $\frac{1}{5} \times \frac{8}{5}$
- C.  $5 \times \frac{1}{8}$
- D.  $8 \times \frac{1}{5}$

**00.** Which numbers are factors of both 32 and 88?

Select the **three** correct answers.

**A.** 16

**B.** 8

**C.** 22

**D.** 2

**E.** 4

**F.** 11

- 00.** The pattern shown starts with 42 and uses a subtraction rule to find the next number in the pattern.

42, 37, 32, 27, 22, 17

Which statement about the number pattern is true?

- A.** Every number is an even number.
- B.** Every number is a multiple of 7.
- C.** Every number has a tens digit of 2 or 7.
- D.** Every number has a ones digit of 2 or 7.

- 00.** Which expression is equivalent to the value of the underlined digit 6 in the number shown?

46,650

- A.**  $6 \times 10$
- B.**  $60 \times 10$
- C.**  $600 \times 10$
- D.**  $6,000 \times 10$

T4M03M417\_2, 3

**00.** Which numbers round to 58,000 when rounded to the nearest **hundred**?

Select the **two** correct answers.

**A.** 57,900

**B.** 57,981

**C.** 58,023

**D.** 58,050

**E.** 58,133

TN612321\_15 (feet)

**00.** A rug is in the shape of a rectangle.

- The width of the rug is 10 feet.
- The perimeter of the rug is 50 feet.

What is the length, in feet, of the rug?

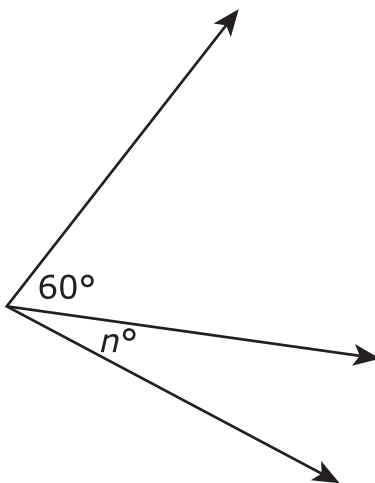
Enter your answer in the space provided.

- 00.** An angle turns through 110 one-degree angles.

What is the measure, in degrees, of the angle?

- A.** 111
- B.** 110
- C.** 11
- D.** 1

- 00.** The two angles shown have a combined measure of 80 degrees. One of the angles has a measure of 60 degrees and the other has a measure of  $n$  degrees.

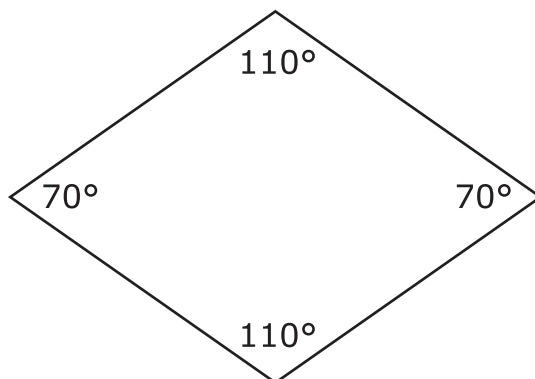


What is the value of  $n$ ?

- A.** 140
- B.** 80
- C.** 30
- D.** 20



- 00.** A shape has the angle measures shown. All the sides are equal in length.



How many lines of symmetry does the shape have?

- A.** 1
- B.** 2
- C.** 3
- D.** 4

## Metadata- Math

### Items

Page Number	UIN	Grade	Item Type	Key	DOK	TN Standards	Calculator
1	TN0025754	4	FIB	2668	2	4.NBT.B.4	N
2	T4M03S072	4	MC	B	1	4.OA.A.1	N
3	TN032911	4	FIB	4	1	4.OA.A.2	N
4	T4M03S334	4	MC	A	2	4.NF.A.1	Y
5	T4M03S614	4	MC	D	1	4.NF.A.2	N
6	T4M03S037	4	MC	D	2	4.NF.B.3.d	Y
7	T4M03S375	4	MC	D	1	4.NF.B.4.a	N
8	TN035278	4	MS	B, D, E	1	4.OA.B.4	N
9	T4M03S470	4	MC	D	2	4.OA.C.5	Y
10	T4M03S099	4	MC	C	1	4.NBT.A.1	Y
11	T4M03M417	4	MS	B, C	2	4.NBT.A.3	N
12	TN612321	4	FIB	15	2	4.MD.A.3	N
13	TN0073431	4	MC	B	1	4.MD.C.5.b	Y
14	T4M03S473	4	MC	D	2	4.MD.C.7	Y
15	T4M03S404	4	MC	B	1	4.G.A.3	Y

### Metadata Definitions:

<b>UIN</b>	Unique letter/number code used to identify the item.
<b>Grade</b>	Grade level or Course.
<b>Item Type</b>	Indicates the type of item. MC= Multiple Choice; MS= Multiple Select; FIB = Fill-in-the-blank
<b>Key</b>	Correct answer.
<b>DOK</b>	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.
<b>TN Standards</b>	Primary educational standard assessed.
<b>Calculator</b>	Y for items that permit calculator use.

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