Tennessee Comprehensive Assessment Program

TCAP

Math

Grade 3 Test Practice

TN Department of Education

Metadata—Math

Items

Page Number	Grade	Item Type	Key	EOL	TN Standards	Calculator
1	3	MC	C	3	3.NBT.A.3	N
2	3	MC	A	2	3.NF.A.3.d	N
3	3	MC	D	3	3.MD.C.5.a	N
4	3	MS	B,D,E	3	3.OA.C.7	N
5	3	MC	A	3	3.NF.A.3.d	N
6	3	MC	D	2	3.OA.A.4	N
7	3	MC	B	2	3.MD.A.1.b	N
8	3	MC	C	3	3.OA.C.7	N
9	3	MC	D	3	3.OA.A.3	N
10	3	MC	A	3	3.OA.B.6	N
11	3	MS	B,D	2	3.G.A.2	N
12	3	MC	B	2	3.OA.C.7	N
13	3	MC	D	2	3.NF.A.3.c	N
14	3	MC	B	3	3.OA.A.4	N
15	3	MC	B	2	3.OA.A.1	N
16	3	MC	A	2	3.NF.A.3.b	N
17	3	MS	A,C	3	3.NBT.A.2	N
18	3	MC	B	3	3.NBT.A.1	N
19	3	MS	A,C,E	3	3.G.A.1	N
20	3	MC	D	3	3.OA.B.6	N
21	3	MC	C	3	3.NF.A.1	Y
22	3	MC	A	2	3.MD.C.7.b	Y
23	3	MC	B	2	3.MD.A.1.a	Y
24	3	MC	A	3	3.OA.A.2	Y
25	3	MC	D	4	3.OA.D.9	Y
26	3	MC	A	3	3.OA.B.5	Y
27	3	MC	A	2	3.MD.B.4	Y
28	3	MC	C	2	3.NF.A.3.b	Y
29	3	MC	A	2	3.MD.C.6	Y
30	3	MC	C	2	3.NF.A.1	Y
31	3	MC	B	4	3.MD.C.7.d	Y
32	3	MC	D	3	3.G.A.3	Y
33	3	MC	C	2	3.OA.B.5	Y
34	3	MC	B	2	3.MD.D.8	Y
35	3	MC	B	3	3.NF.A.2.a	Y
36	3	MC	A	3	3.MD.B.3	Y
37	3	MC	C	3	3.OA.D.8	Y

38	3	MC	C	3	3.MD.D.8	Y
39	3	MC	B	3	3.MD.A.2	Y

Metadata Definitions

Grade	Grade level or Course.
Item Type	Indicates the type of item. MC= Multiple Choice; MS= Multiple Select
Key	Correct answer.
EOL	Evidence of Learning (EOL) statements provide indication of how students are tracking toward grade-level conceptual understanding of the Tennessee Mathematic Standards. Performance at Level 2 demonstrates that the student is **approaching** grade-level understanding and has a **partial** ability to apply the grade-/course-level knowledge and skills defined by the Tennessee Academic Standards Performance at Level 3 demonstrates that the student has a **comprehensive** understanding and **thorough** ability to apply the grade-/course-level knowledge and skills defined by the Tennessee Academic Standards Performance at Level 4 demonstrated that the student has an **extensive** understanding and **expert** ability to apply the grade-/course-level knowledge and skills defined by the Tennessee Academic Standards
TN Standards	Primary educational standard assessed.
Calculator	Y for items that permit calculator use.

00 Mr. Eaton has shirts with buttons on them. The total number of buttons on the shirts is 8×30.

What is the total number of buttons on Mr. Eaton's shirts?

Ⓐ 24

Ⓑ 38

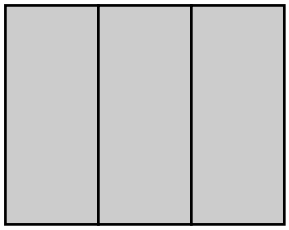
Ⓒ 240

Ⓓ 380

00 The shaded figure represents a fractional amount.

Which shaded figure represents a fraction greater than the fraction shown?

Ⓐ



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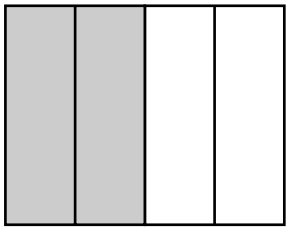

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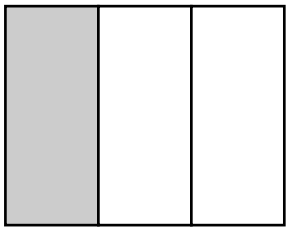

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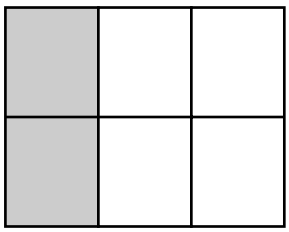
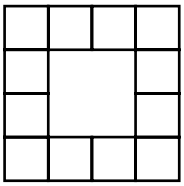


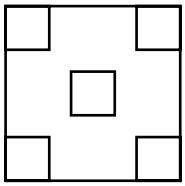
00 Which figure appears to be completely covered with unit squares and could be used to correctly measure area?

Ⓐ



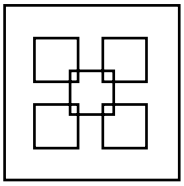
Key
= 1 square unit

Ⓒ



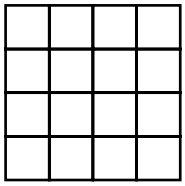
Key
= 1 square unit

Ⓑ



Key
= 1 square unit

Ⓓ



Key
= 1 square unit

00 Which three expressions have a quotient of 2?

Select the **three** correct answers.

Ⓐ $18 \div 6$

Ⓑ $16 \div 8$

Ⓒ $13 \div 7$

Ⓓ $12 \div 6$

Ⓔ $10 \div 5$

00 Which comparison is true?

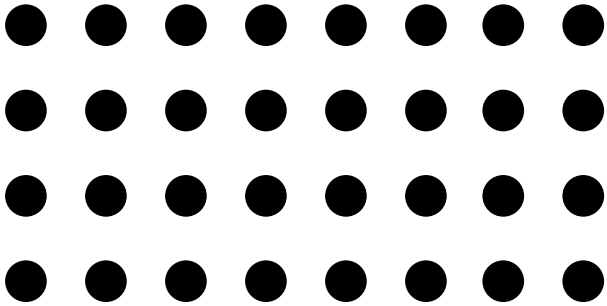
Ⓐ $\frac{8}{4} > \frac{3}{4}$

Ⓑ $\frac{3}{4} > \frac{3}{4}$

Ⓒ $\frac{2}{4} > \frac{2}{3}$

Ⓓ $\frac{8}{8} > \frac{8}{1}$

00 The model represents a multiplication equation.



What is the missing number in the equation that the model represents?

$\square = 8 \times 4$

Ⓐ 2

Ⓑ 4

Ⓒ 12

Ⓓ 32

00 Sheri had the group of coins shown.

She bought an eraser for 18¢. How much money does Sheri have left?

Ⓐ 53¢

Ⓑ 58¢

Ⓒ 62¢

Ⓓ 94¢

00 Which expression is equal to 42?

Ⓐ 5×7

Ⓑ 6×8

Ⓒ 6×7

Ⓓ 5×8

00 Sam is making apple pies for a bake sale.

- Each apple pie uses 4 pounds of apples.
- Sam wants to make 16 pies.

How many pounds of apples does Sam need to make all 16 pies?

Ⓐ 4

Ⓑ 20

Ⓒ 44

Ⓓ 64

00 Lars wrote this equation.

$$8 \div 2 = 4$$

Which equation can be used to show that the equation Lars wrote is **true**?

Ⓐ $2 \times 4 = 8$

Ⓑ $2 \times 8 = 16$

Ⓒ $4 \times 4 = 16$

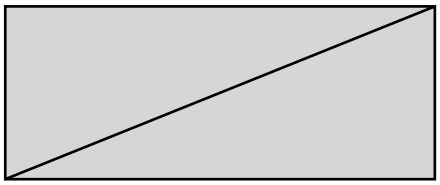
Ⓓ $4 \times 8 = 32$

00 Farmer Jane and Farmer Ben share a field. Each grows carrots in a different half of the field. The field is in the shape of a rectangle.

Which rectangles show halves?

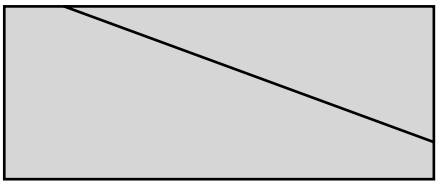
Select the **two** correct answers.

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

Ⓔ 

00 Which equation is true?

Ⓐ $56 \div 9 = 6$

Ⓑ $6 \times 8 = 48$

Ⓒ $32 \div 4 = 9$

Ⓓ $7 \times 3 = 10$

00 Which fraction completes the equation?

$9 = \square$

Ⓐ $\frac{1}{9}$

Ⓑ $\frac{3}{3}$

Ⓒ $\frac{6}{3}$

Ⓓ $\frac{9}{1}$

00 What number is missing from the equation?

$$9 \times \square = 63$$

Ⓐ 6

Ⓑ 7

Ⓒ 54

Ⓓ 72

00 Emile glues pictures on 6 pieces of paper. He glues 2 pictures on each piece of paper.

Which equation can be used to find the total number of pictures Emile glues?

Ⓐ $6 + 2 = \square$

Ⓑ $6 \times 2 = \square$

Ⓒ $6 - 2 = \square$

Ⓓ $6 \div 2 = \square$

00 John drew fraction models and wrote an equation to represent equivalent fractions.

$$\frac{3}{\square} = \frac{6}{8}$$

What number belongs in the box to make John's equation true?

Ⓐ 4

Ⓑ 8

Ⓒ 12

Ⓓ 16

00 Which equations are true?

Select the **two** correct answers.

Ⓐ $456 - 211 = 245$

Ⓑ $458 - 263 = 215$

Ⓒ $209 - 99 = 110$

Ⓓ $345 - 77 = 278$

Ⓔ $980 - 94 = 896$

00 Which number rounds to 40 when rounded to the nearest **ten**?

Ⓐ 34

Ⓑ 43

Ⓒ 135

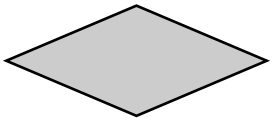
Ⓓ 240

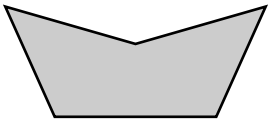
00 Which shapes are quadrilaterals?

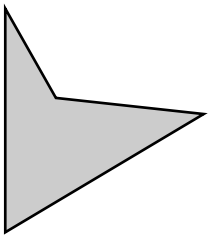
Select the **three** correct answers.

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

Ⓔ 

00 A pet store sold 21 dog collars. The same number of collars was sold each day for 3 days.

Which equation shows how to find the number of dog collars sold each day?

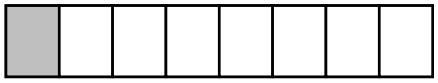
Ⓐ $\square \div 21 = 3$

Ⓑ $3 \div \square = 21$

Ⓒ $3 \times 21 = \square$

Ⓓ $3 \times \square = 21$

00 Which fraction model is shaded to represent $\frac{7}{8}$?

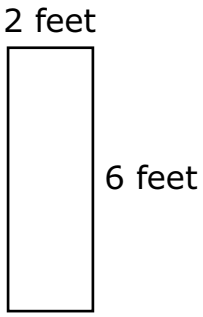
Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

00 A rectangle with side lengths is shown.



Which expression could be used to find the area of the rectangle in square feet?

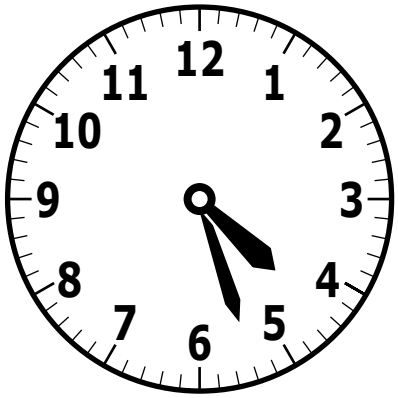
Ⓐ 6×2

Ⓑ $6 + 2$

Ⓒ $6 \times 2 \times 6 \times 2$

Ⓓ $6 + 2 + 6 + 2$

00 Jaime walked for 32 minutes. He began walking at the time shown on the clock.



At what time did Jaime finish walking?

Ⓐ 3:55

Ⓑ 4:59

Ⓒ 5:05

Ⓓ 5:59

00 Diego and three of his friends ate at a restaurant and want to divide the bill equally. Their total bill with tax and tip was $35.

Which expression represents the amount each person will pay?

Ⓐ $35 \div 4$

Ⓑ $4 \div 35$

Ⓒ $35 \div 3$

Ⓓ $3 \div 35$

00 A section of a multiplication table is shown. The multiplication patterns of 3 and 6 are shaded.

3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84

Which statement is true?

Ⓐ All numbers in both patterns are even.

Ⓑ All numbers in both patterns are odd.

Ⓒ In each column, the number in the 6 pattern is 3 more than the number in the 3 pattern.

Ⓓ In each column, the number in the 6 pattern is double the number in the 3 pattern.

00 Jermey is solving the expression $4 \times 2 \times 3$.

Which expression can represent Jermey's first step to solving this expression?

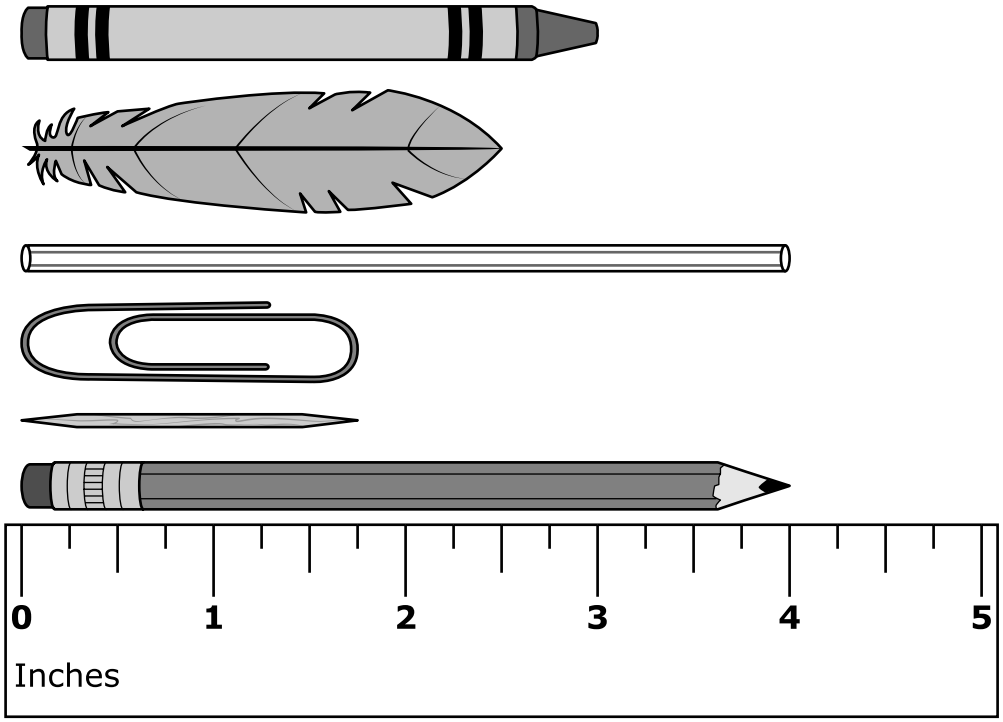
Ⓐ 4×6

Ⓑ 8×6

Ⓒ 6×3

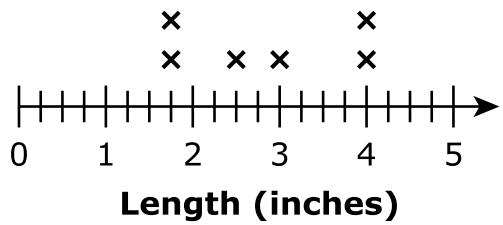
Ⓓ 4×5

00 Daniel measured the lengths of 6 objects using an inch ruler.

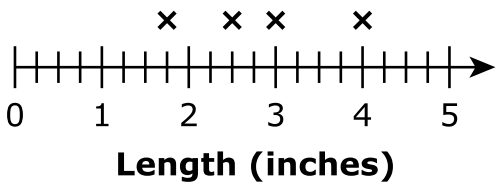


Which line plot correctly represents the lengths of all the objects Daniel measured?

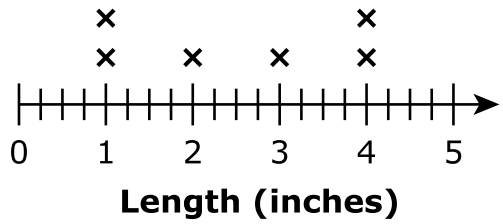
Ⓐ



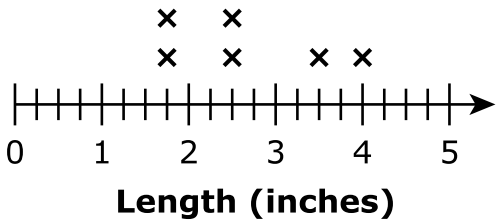
Ⓒ



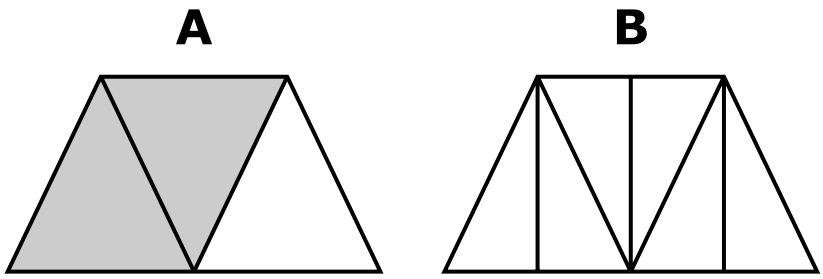
Ⓑ



Ⓓ



00 Figure A and Figure B are the same size and shape. Figure A is divided into equal parts, and Figure B is divided into equal parts.



How many parts in Figure B should be shaded to represent the same fraction that is shaded in Figure A?

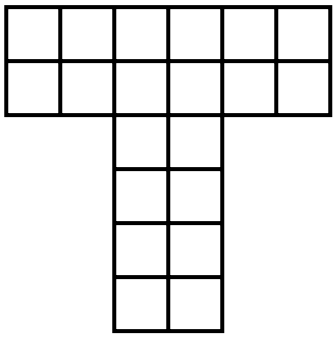
Ⓐ 2

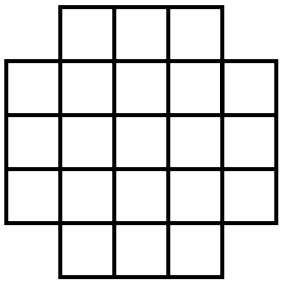
Ⓑ 3

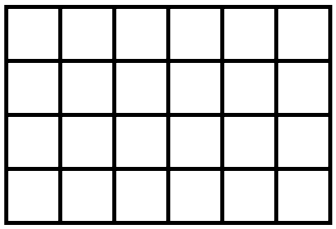
Ⓒ 4

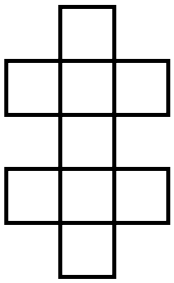
Ⓓ 5

00 Which figure has an area of 20 square units?

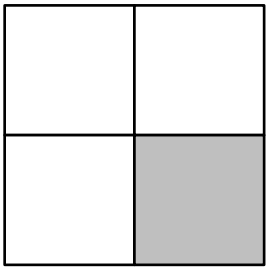
Ⓐ 

Ⓒ 

Ⓑ 

Ⓓ 

00 The model shown is divided into 4 equal-sized parts.



Which fraction represents the shaded area of this model?

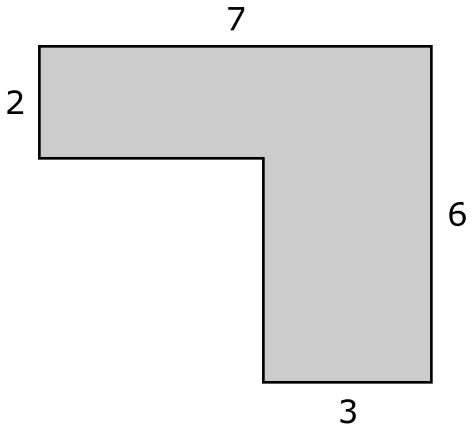
Ⓐ $\frac{1}{3}$

Ⓑ $\frac{3}{1}$

Ⓒ $\frac{1}{4}$

Ⓓ $\frac{4}{1}$

00 The figure shown is composed of two rectangles placed together without overlap. Some side lengths are given in units.



Which expression represents the total area of the figure, in square units?

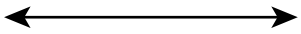
Ⓐ $(7 \times 4) + (2 \times 6)$

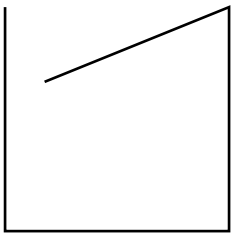
Ⓑ $(7 \times 2) + (4 \times 3)$

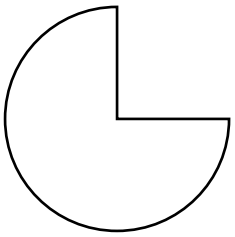
Ⓒ $(7 \times 6) + (2 \times 4)$

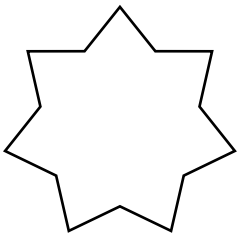
Ⓓ $(7 \times 3) + (6 \times 2)$

00 Which figure is a polygon?

Ⓐ 

Ⓒ 

Ⓑ 

Ⓓ 

00 Which expression is equivalent to $48 \div 8$?

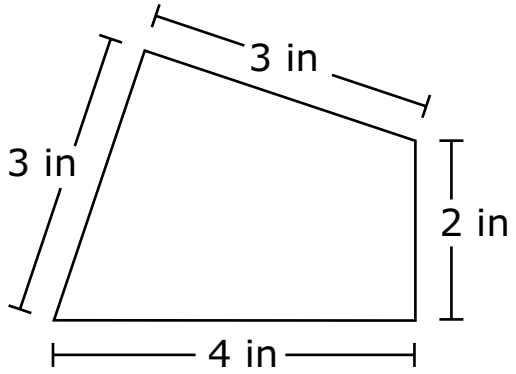
Ⓐ $(40 \div 4) + (8 \div 4)$

Ⓑ $(4 \div 4) + (8 \div 4)$

Ⓒ $(40 \div 8) + (8 \div 8)$

Ⓓ $(4 \div 8) + (8 \div 8)$

00 Here is a shape. The side lengths are measured in inches (in).



What is the perimeter, in inches, of the shape?

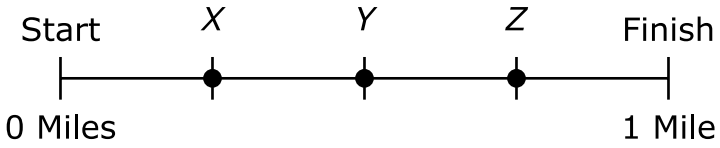
Ⓐ 9

Ⓑ 12

Ⓒ 24

Ⓓ 72

00 Points X, Y, and Z on the number line represent water stations between the start and finish of a race.



What is the distance between water stations Y and Z?

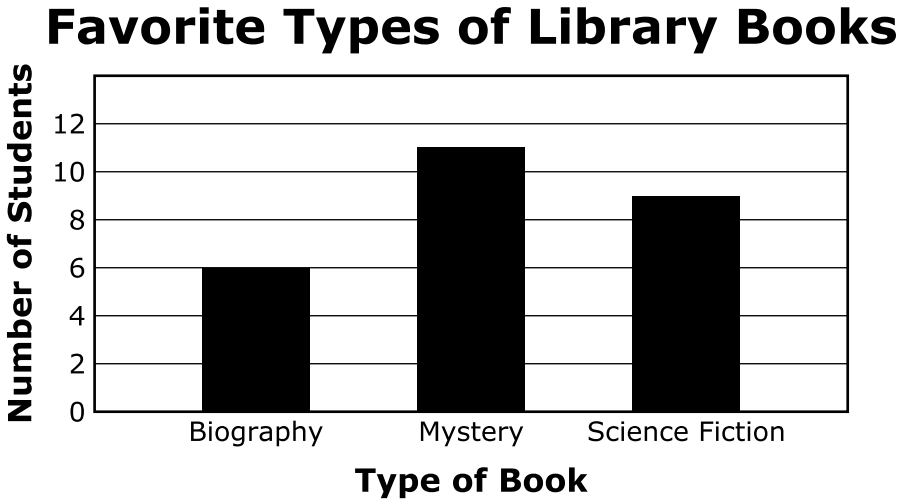
Ⓐ $\frac{1}{5}$ mile

Ⓑ $\frac{1}{4}$ mile

Ⓒ $\frac{1}{3}$ mile

Ⓓ $\frac{1}{2}$ mile

00 The bar graph shows the results when 26 students were asked which type of library book is their favorite.



How many **fewer** students chose mystery books than chose biography and science fiction books combined?

Ⓐ 4

Ⓑ 5

Ⓒ 14

Ⓓ 15

00 Alex works at a clothing store.

- Alex folded 49 shirts in the morning and 57 shirts in the afternoon.
- Alex put all the shirts on a sale table.
- All but 18 of the shirts were sold.

Which equation can be used to find n, the number of shirts that were sold?

Ⓐ $n = 106 + 18$

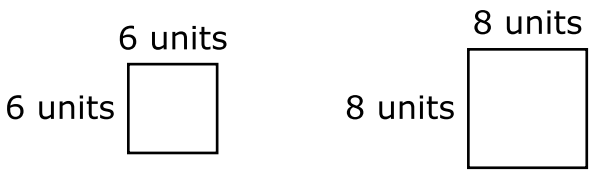
Ⓑ $n = 18 + 8$

Ⓒ $n = 106 - 18$

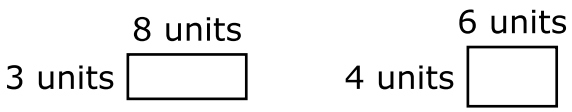
Ⓓ $n = 18 - 8$

00 Which two rectangles have the same perimeter?

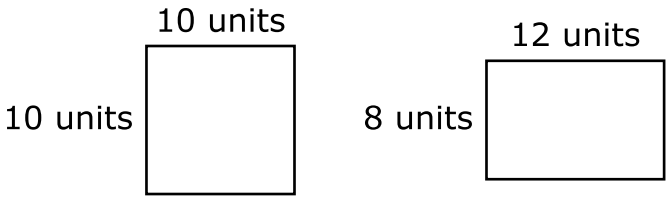
Ⓐ



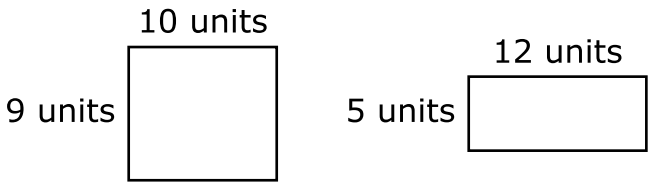
Ⓑ



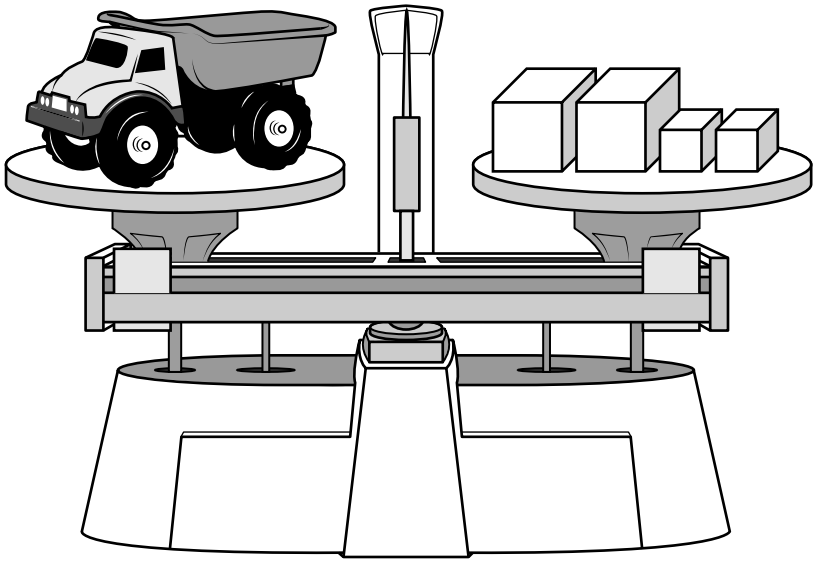
Ⓒ



Ⓓ



00 A toy truck and some blocks are placed on a balance so that each side has the same mass. Each small block has a mass of 5 grams, and each large block has a mass of 15 grams.



What is the mass of the toy truck, in grams?

Ⓐ 20

Ⓑ 40

Ⓒ 60

Ⓓ 80

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Math
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