Tennessee TCAP 2020 Grade 3 Math Practice

Exam Materials
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Tennessee Comprehensive Assessment Program

TCAP

Math

Grade 3 | Practice Test

Please* PRINT *all information in the box.

Student Name: _____

Teacher Name: _____

School: _____

District: _____

All practice test items represent the appropriate grade level/content standards—however, the practice test may contain item types that no longer appear on the operational assessment.

1 Which expression is equivalent to $2 \times (5 \times 4)$?

Ⓐ $2 + (5 \times 4)$

Ⓑ $(2 \times 5) \times 4$

Ⓒ $(2 \times 5) + (2 \times 4)$

Ⓓ $(5 \times 4) \times (2 \times 4)$

2 What is the value of 70×4?

Enter your answer in the space provided.

3 Lee put 36 plates into 4 stacks. Each stack has the same number of plates.

How many plates did Lee put in each stack?

Enter your answer in the space provided.

4 Which equation has the same missing number as $50 \div 5 = \square$?

Ⓜ $50 \times 5 = \square$

Ⓟ $50 - 5 = \square$

Ⓡ $5 + \square = 50$

Ⓢ $5 \times \square = 50$

5 Which equations are true?

Choose the **two** correct answers.

Ⓐ $9 \times 2 = 16$

Ⓑ $72 \div 9 = 8$

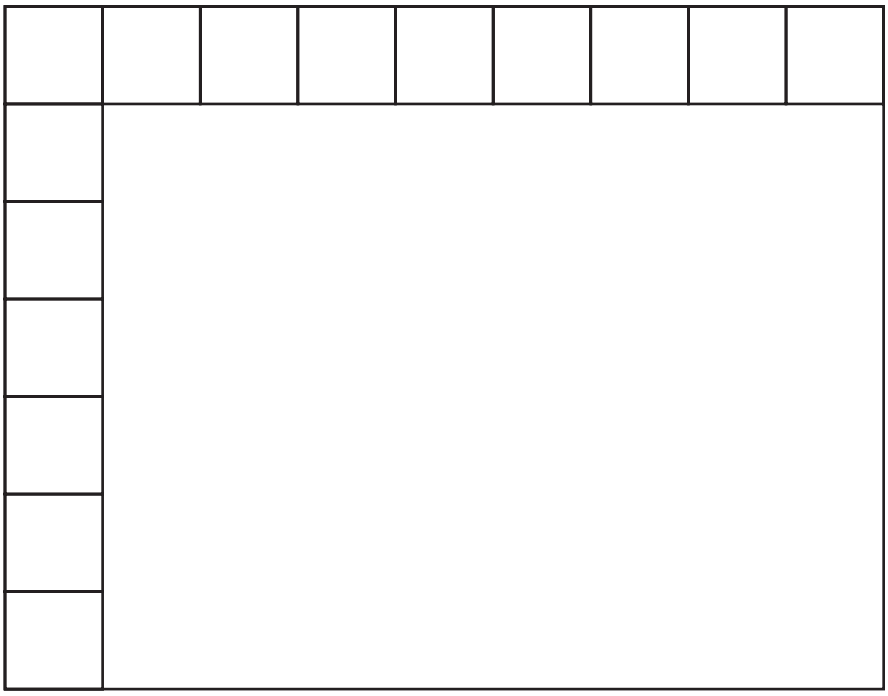
Ⓒ $9 \times 6 = 63$

Ⓓ $8 \times 9 = 72$

Ⓔ $63 \div 9 = 6$

6 Linda is covering the top of her table with square tiles of the same size.

She has already completed the first row and the first column, as shown.



How many tiles will Linda use in all to cover the whole tabletop?

Enter your answer in the space provided.

7 What is the value of 6×4?

Enter your answer in the space provided.

8 Mr. Hill divided his garden into 6 parts. All the parts of his garden have equal areas.

Beans	Flowers	Lettuce
Tomatoes	Flowers	Lettuce

What fraction of the total area of the garden is Mr. Hill using for beans?

Ⓜ $\frac{1}{5}$

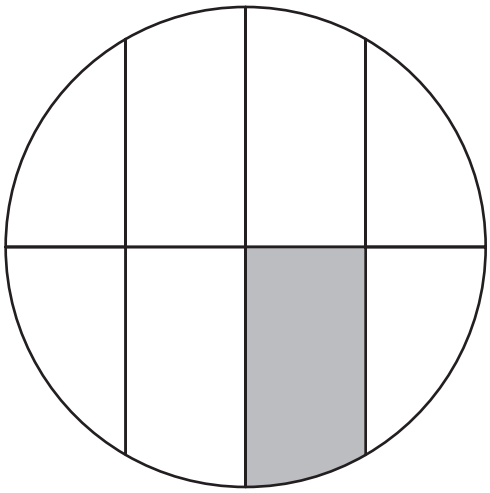
Ⓟ $\frac{5}{1}$

Ⓡ $\frac{1}{6}$

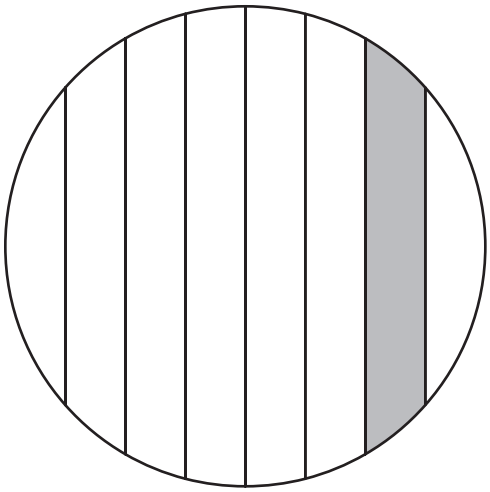
Ⓢ $\frac{6}{1}$

9 Which circle has $\frac{1}{8}$ of its whole area shaded?

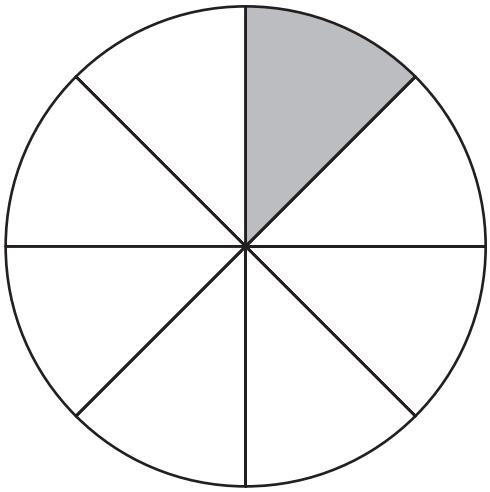
Ⓐ



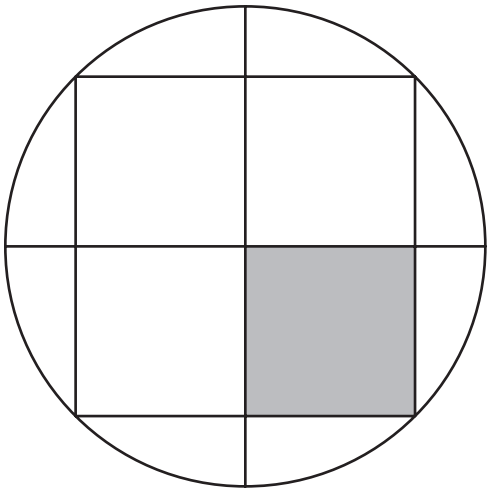
Ⓒ



Ⓑ



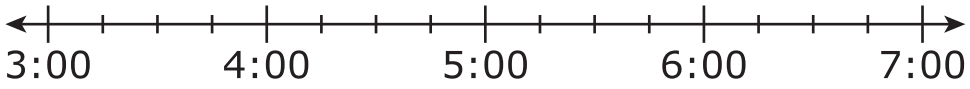
Ⓓ



10 Nikki's music lesson begins at 5:15 and ends 30 minutes later.

Place two points on the number line to show when Nikki's lesson begins and ends.

Label the points *B*, for the beginning time, and *C* for the end time.

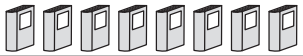
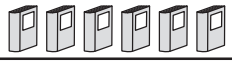


11 Mr. Franklin's class collected books for the library.

- Students collected 8 books on Monday.
- Students collected some more books on Tuesday.
- By the end of these two days, they had collected a total of 14 books.

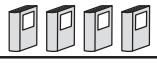
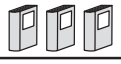
Which pictograph shows the number of books the class collected each day?

Ⓜ

Day	Number of Books
Monday	
Tuesday	

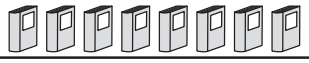
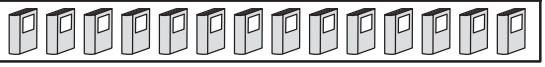
Key
 = 2 books

Ⓟ

Day	Number of Books
Monday	
Tuesday	

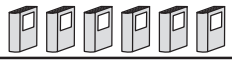
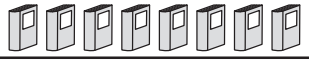
Key
 = 2 books

Ⓡ

Day	Number of Books
Monday	
Tuesday	

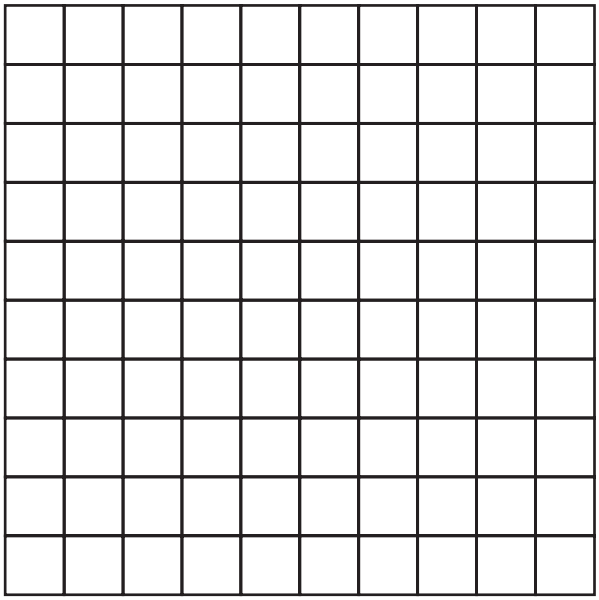
Key
 = 2 books

Ⓢ

Day	Number of Books
Monday	
Tuesday	

Key
 = 2 books

12 Using the grid shown, draw and shade a rectangle that has an area of 10 square units.



Key
☐ = 1 square unit

13 What is 342 rounded to the nearest 10?

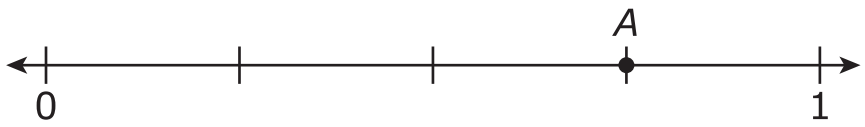
Ⓐ 300

Ⓑ 340

Ⓒ 350

Ⓓ 400

14 Which fraction does point *A* show?

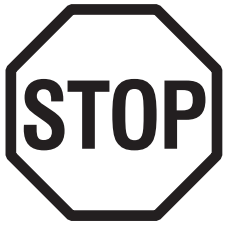


Ⓜ $\frac{3}{4}$

Ⓟ $\frac{3}{2}$

Ⓡ $\frac{2}{4}$

Ⓢ $\frac{2}{2}$



This is the end of Subpart 1 of the Math Practice Test.
Do not go on to the next page until told to do so.

15 Which equations and inequalities are true?

Select the **three** correct answers.

Ⓐ $\frac{6}{6} = \frac{3}{3}$

Ⓑ $\frac{5}{8} < \frac{6}{8}$

Ⓒ $\frac{4}{1} = \frac{4}{8}$

Ⓓ $\frac{3}{6} > \frac{3}{1}$

Ⓔ $\frac{2}{4} < \frac{2}{1}$

16 Eddie played basketball with his team last night.

- He made 4 shots that were worth 2 points each.
- He made 1 shot that was worth 3 points.

Part A
Which equation can be used to find *n,* the total number of points he scored from his 2-point and 3-point shots?

Ⓜ $n = (4 + 2) + 3$

Ⓟ $n = (4 + 2) \times 3$

Ⓡ $n = (4 \times 2) + 3$

Ⓢ $n = (4 \times 2) \times 3$

Part B
What is the total number of points Eddie scored from his 2-point and 3-point shots?

Enter your answer in the space provided.

17 Carly was shading numbers that follow a pattern before her paper ripped.

								10
						16	18	20
				15	18	21	24	27	30
		12	16	20	24	28	32	36	40
	10	15	20	25	30	35	40	45	50
	12	18	24	30	36	42	48	54	60
	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

Which of these is the rule for the pattern of numbers shaded on Carly's paper?

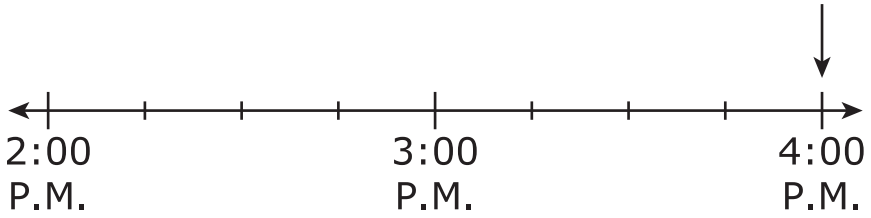
Ⓐ multiply by 4

Ⓑ multiply by 2

Ⓒ add 16

Ⓓ add 8

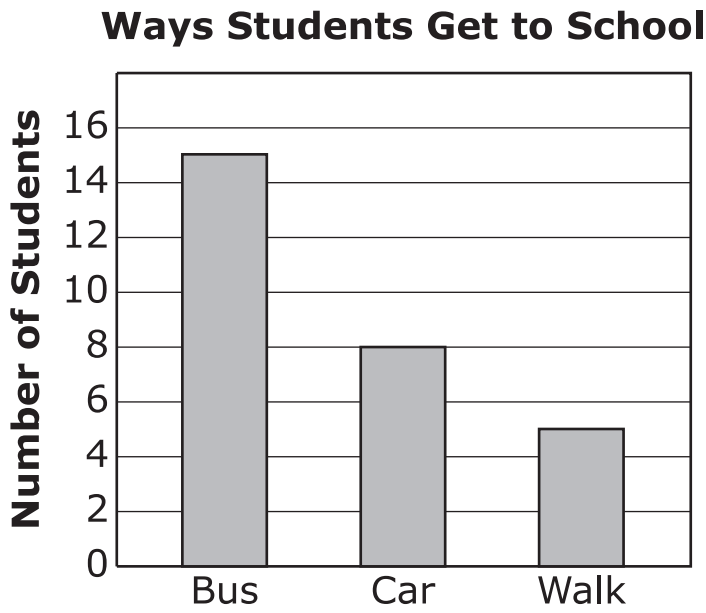
18 Brandon's swim practice began at 3:15 P.M. It ended at the time shown by the arrow.



How many minutes did Brandon spend at swim practice?

Enter your answer in the space provided.

19 The bar graph shows three ways the students in David's class get to school.



How many **more** students ride the bus than ride in a car **and** walk combined?

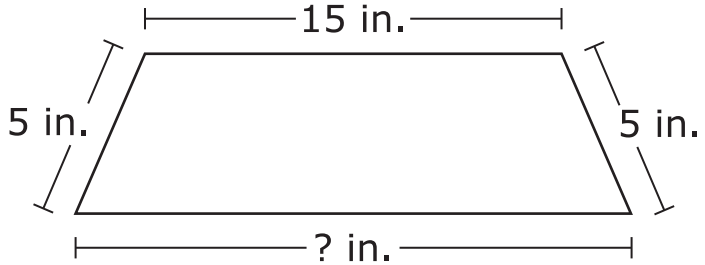
Ⓜ 2

Ⓟ 5

Ⓡ 13

Ⓢ 28

20 The figure shown has a perimeter of 45 inches. The length of one side is unknown.



What is the unknown length, in inches?

Enter your answer in the space provided.

21 Mark has 40 cards.

- He stacks the cards in 8 piles.
- Each pile has the same number of cards.

Which **two** equations can be used to find c, the number of cards in each pile?

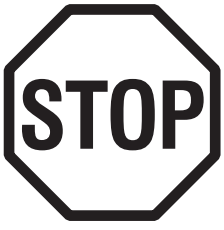
Ⓐ $8 \times c = 40$

Ⓑ $5 \times c = 40$

Ⓒ $8 \times 5 = c$

Ⓓ $40 \div 5 = c$

Ⓔ $40 \div 8 = c$



This is the end of Subpart 2 of the Math Practice Test.
Do not go on to the next page until told to do so.

22 Evan has two boxes of cookies.

- The first box has 30 cookies.
- The second box has 24 cookies.

He shares all the cookies equally with 6 people.

How many cookies does Evan give each person?

Ⓐ 4 cookies

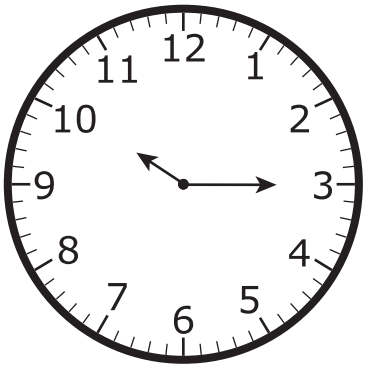
Ⓑ 5 cookies

Ⓒ 8 cookies

Ⓓ 9 cookies

23 Jason started reading his book at 9:45.

He stopped reading his book at the time shown on the clock.



For how many minutes did Jason read his book?

Enter your answer in the space provided.

24 Jasmine has 20 marbles.

- She places the marbles in 4 groups.
- Each group has the same number of marbles.

Which expression can be used to find the number of marbles in each group?

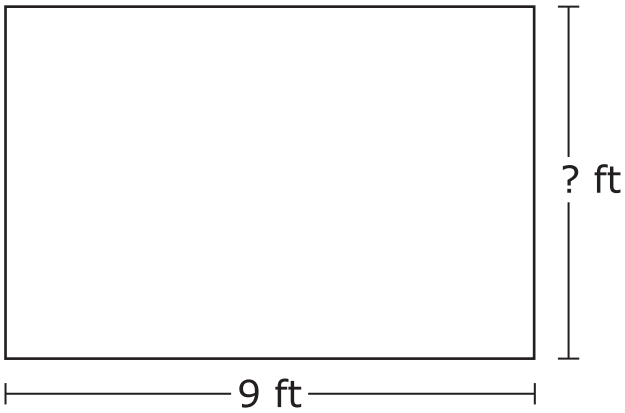
Ⓜ $4 + 20$

Ⓟ 4×20

Ⓡ $20 - 4$

Ⓢ $20 \div 4$

25 Ms. Karmen's art class is making a banner in the shape of a rectangle. The perimeter of the banner is 30 feet.



What is the height of the banner?

Ⓐ 21 ft

Ⓑ 18 ft

Ⓒ 12 ft

Ⓓ 6 ft

26 Students in a 3rd-grade class collected bottles and won a pizza party. The school principal will use this information to find the number of pizzas that should be ordered.

- There are 20 students in the 3rd-grade class.
- Every student will get 2 slices of pizza.
- Every pizza has 8 slices.

How many whole pizzas should the principal order?

Enter your answer in the space provided.

27 Look at this equation.

$7 \times \square = 56$

What number goes in the box to make the equation true?

Enter your answer in the space provided.

28 The art club has 9 students. They have 90 markers to share equally.

Which number sentence can be solved to find how many markers each student will have?

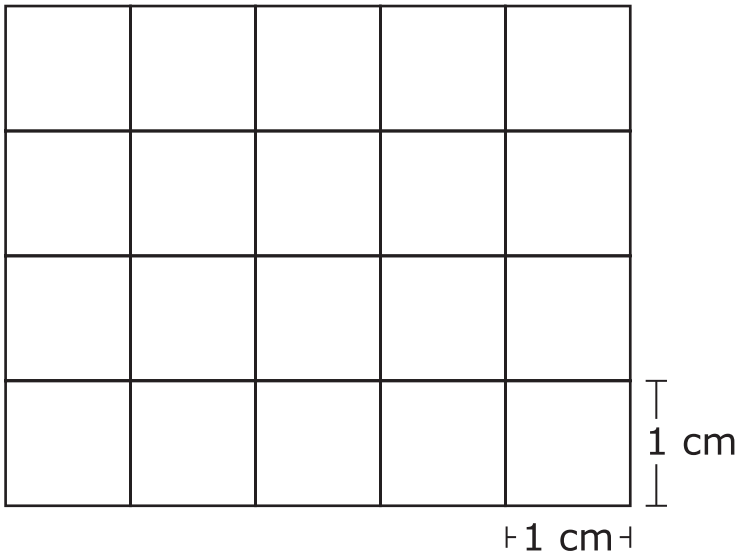
Ⓜ $9 + \square = 90$

Ⓟ $9 \times \square = 90$

Ⓡ $90 - 9 = \square$

Ⓢ $90 \times 9 = \square$

29 This figure is made of unit squares.



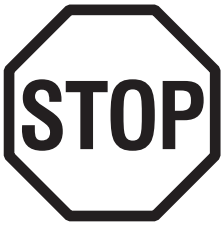
What is the area of the figure?

Ⓐ 1 square centimeter

Ⓑ 2 square centimeters

Ⓒ 11 square centimeters

Ⓓ 20 square centimeters



This is the end of the test.

Subpart 1 Practice Test Questions

1. Ⓐ ● Ⓒ Ⓓ

2. 280

3. 9

4. Ⓜ Ⓟ Ⓡ ●

5. Ⓐ ● Ⓒ ● Ⓔ (select **two**)

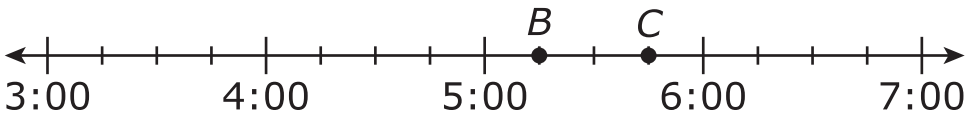
6. 63

7. 24

8. Ⓜ Ⓟ ● Ⓢ

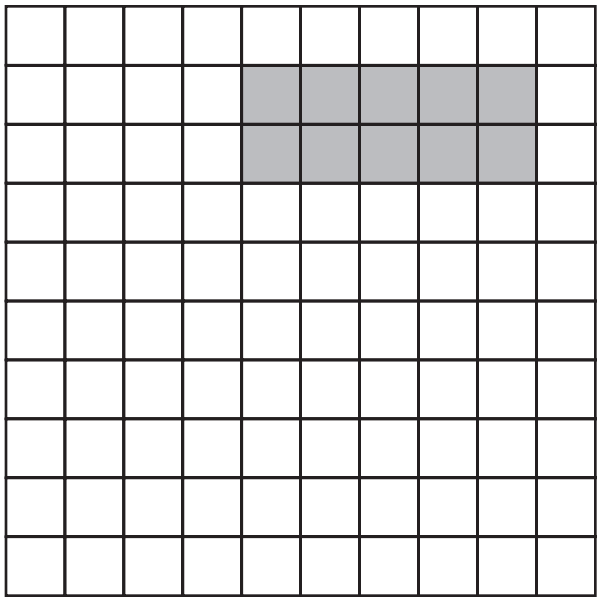
9. Ⓐ ● Ⓒ Ⓓ

10.



11. Ⓜ ● Ⓡ Ⓢ

12.



Key
☐ = 1 square unit

13. Ⓐ ● Ⓒ Ⓓ

14. ● Ⓟ Ⓡ Ⓢ

Subpart 2 Practice Test Questions

15. ● ● Ⓒ Ⓓ ● (select **three**)

16. **Part A:** Ⓜ Ⓟ ● Ⓢ

Part B:

11

17. Ⓐ Ⓑ Ⓒ ●

18.

45

19. ● Ⓟ Ⓡ Ⓢ

20. 20

21. ● Ⓑ Ⓒ Ⓓ ● (select **two**)

Subpart 3 Practice Test Questions

22. Ⓐ Ⓑ Ⓒ ●

23. 30

24. Ⓜ Ⓟ Ⓡ ●

25. Ⓐ Ⓑ Ⓒ ●

26. 5

27. 8

28. Ⓜ ● Ⓡ Ⓢ

29. Ⓐ Ⓑ Ⓒ ●

TN Department of Education

TNReady Practice Test Standards Alignment and Key – Grade 3

Subpart 1	Key	Standard
1	B	3.OA.B.5
2	280	3.NBT.A.3
3	9	3.OA.A.3
4	S	3.OA.B.6
5	B, D	3.OA.C.7
6	63	3.MD.C.7a
7	24	3.OA.C.7
8	R	3.NF.A.1
9	B	3.G.A.2
10	Point B at 5:15 and Point C at 5:45	3.MD.A.1
11	P	3.MD.B.3
12	Any rectangle with 10 squares	3.MD.C.5b
13	B	3.NBT.A.1
14	M	3.NF.A.2b
Subpart 2		
15	A, B, E	3.NF.A.3c/d
16	R; 11	3.OA.D.8
17	D	3.OA.D.9
18	45	3.MD.A.1
19	M	3.MD.B.3
20	20	3.MD.D.8
21	A, E	3.OA.A.3
Subpart 3		
22	D	3.OA.D.8
23	30	3.MD.A.1
24	S	3.OA.A.2
25	D	3.MD.D.8
26	5	3.OA.D.8
27	8	3.OA.A.4
28	P	3.OA.B.6
29	D	3.MD.C.6