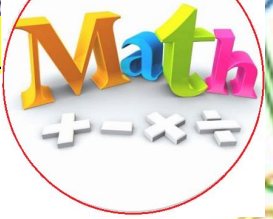


Name: _____

Section: _____



**WRITE YOUR NAME
OR NO GRADE!!!**

EXTRA CREDIT PACKET - SPRING BREAK

DUE ON MONDAY MARCH 11 by 3:00 pm

This is a VOLUNTARY ASSIGNMENT. You will not lose points if you do not complete it.

Notes

- Just like the homework, you must show your work where it makes sense to do so. You will lose 50% of the points on questions that require work if you show no work, even if the answers are present and correct.
- I am grading this for correctness. It is not enough just to do it. You will get a grade also on how many answers are correct!
- I will not accept this AT ALL IF IT IS LATE. You must be sure to turn it in by **MONDAY MARCH 11** or you will not get any credit.

Please feel free to contact me with any questions or concerns at natalie.roman@archimedean.org.

Name _____ Date _____

1. The value of the 5 in the number 594,631 is how many times larger than the value of the 5 in the number 859,463?

- A. 2 times
 - B. 6 times
 - C. 10 times
 - D. 100 times
-

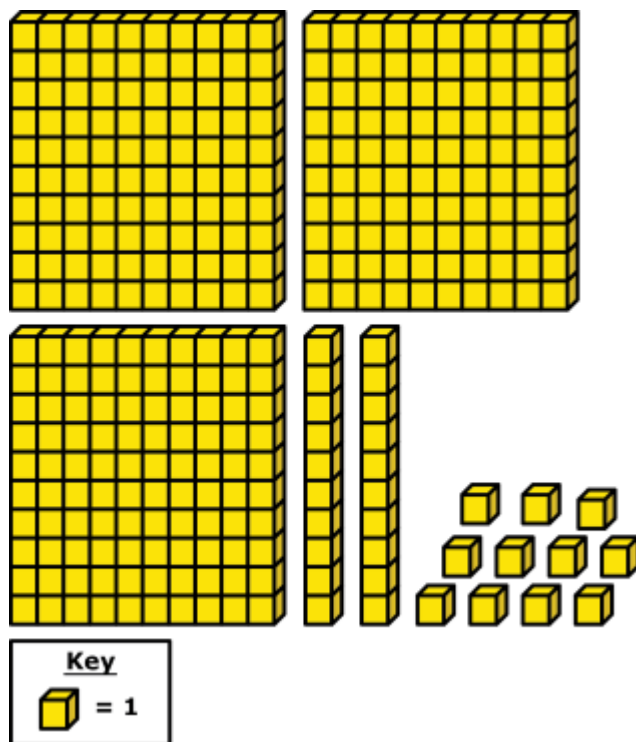
2. Choose the statement that explains how the values of the numbers 2700 and 270 are different.

- A. 2700 is 1 time as large as 270
 - B. 2700 is 10 times as large as 270
 - C. 2700 is 100 times as large as 270
 - D. 2700 is 1000 times as large as 270
-

3. The speed of light is about 186,282 miles per second. What is the expanded form of 186,282?

- A. $100,000 + 80,000 + 6,000 + 200 + 80 + 2$
- B. $100,000 + 80,000 + 6,000 + 2,000 + 80 + 2$
- C. $100,000 + 8,000 + 600 + 200 + 80 + 2$
- D. $100,000 + 8,000 + 6,000 + 200 + 80 + 2$

4. This set of place-value blocks represents a number. The value of this number can be represented in many different ways.



Which of the following values are equivalent to the number represented by the place-value blocks? Select three that apply.

- A. $300 + 20 + 11$
- B. $300 + 21$
- C. Three hundred thirty-one
- D. 2 hundreds + 13 tens + 1 one
- E. $200 + 140$

-
5. What is 126,349 rounded to the hundreds place?

6. Round 456,872 to the nearest thousand.

7. What number goes in the to make the number sentence below true?

$$3,652 - \square = 2,145$$

A. 1,497

C. 3,407

B. 1,507

D. 5,797

8. Find the sum.

$$\begin{array}{r} 3,956 \\ + 5,891 \\ \hline \end{array}$$

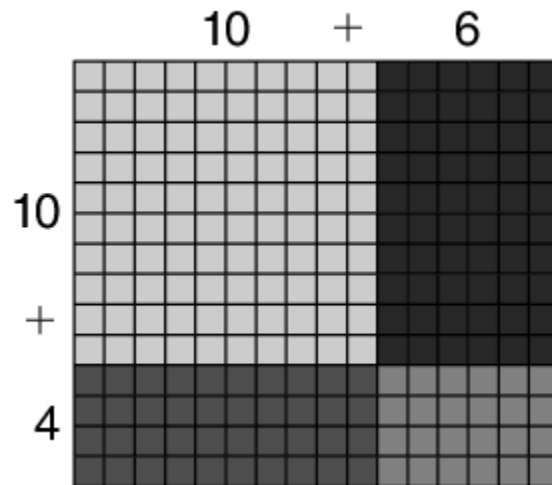
A. 9,847

C. 9,747

B. 9,837

D. 8,747

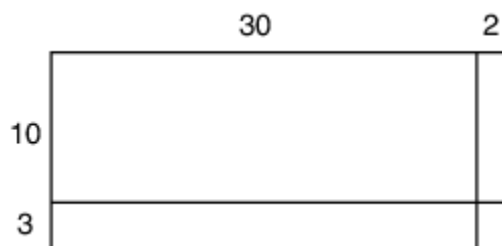
9. Use the area model below to answer the question.



Which equation is shown by this model?

- A. $(10 \times 10) + (4 \times 6) = 124$
- B. $(10 \times 10) + (4 \times 10) + (4 \times 6) = 164$
- C. $(10 \times 10) + (4 \times 10) + (4 \times 6) = 200$
- D. $(10 \times 10) + (4 \times 10) + (10 \times 6) + (4 \times 6) = 224$

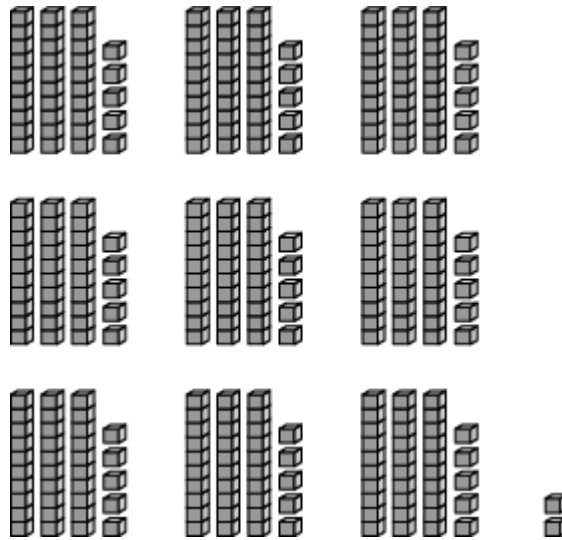
10. Ms. Sebastian drew the model on the board.



Which problem was she trying to solve?

- A. $32 + 13$
- B. 32×13
- C. $(30 \times 2) + (10 \times 3)$
- D. $(30 \times 10) + (3 \times 2)$

11. Johnny sorted all of his number cubes into groups as shown below.



Which number sentence does the picture most closely represent?

- A. $317 \div 35 = 9$
- B. $317 \div 9 = 35 \text{ R } 2$
- C. $9 \times 35 = 317 \text{ R } 2$
- D. $9 \times (35 + 2) = 317$

12. Find the quotient of 376 divided by 4.

- | | |
|--------|-----------|
| A. 940 | C. 90 R16 |
| B. 94 | D. 90 |

13. Kiefer has 5 video games. In each game box, there are 3 discs. Which equation shows the total number of discs Kiefer has?

- | | |
|----------------|----------------------|
| A. $5 - 3 = 3$ | C. $5 + 3 = 8$ |
| B. $3 + 3 = 2$ | D. $3 \times 5 = 15$ |

14. Jackson is 5 years old. His brother Micah is 20 years older than him. Which equation represents Micah's age in comparison with Jackson's age?

A. $20 - 5 = 15$

C. $5 + 25 = 30$

B. $20 \div 5 = 4$

D. $5 \times 5 = 25$

15. Without adding the numbers on each side of the equations, choose the equation that is true.

A. $35 + 52 = 87 + 52$

B. $48 + 33 = 42 + 35$

C. $63 + 49 = 65 + 47$

D. $71 + 28 = 74 + 31$

16. Without adding the numbers on each side of the equations, choose the equations that are true.

A. $97 - 29 = 91 - 23$

B. $86 - 45 = 41 - 17$

C. $79 - 36 = 89 - 36$

D. $68 - 24 = 64 - 28$

E. $54 - 12 = 57 - 15$

17. Without solving, what value for n makes this equation true?

$$86 - n = 95 - 77$$

A. 64

C. 68

B. 66

D. 70

18. Without solving, what value for n makes this equation true?

$$n + 94 = 32 + 114$$

A. 12

C. 42

B. 32

D. 52

19. Martha's mother is 4 times older than Martha. Martha's mother is 36 years old. Which equation can be used to find Martha's age, a ?

A. $36 \div 4 = a$

B. $36 \times 4 = a$

C. $36 \times a = 4$

D. $36 - a = 4$

20. Lauren went to the store and bought a red hat for \$32 and a black hat for \$8. How many times as much did the red hat cost as the black hat?

A. 2

C. 5

B. 4

D. 6

21. A toy store needs to make 800 toys to sell during the holidays. Three hundred seventy-two toys have already been made. By late afternoon, 159 more toys were made. How many more toy need to be made so the store will be ready for the holidays?

A. 641

C. 269

B. 428

D. 132

22. A farm has 15 rows of fruit trees with 7 trees in each row. The last 4 rows of trees are cherry trees. The remaining trees are orange trees. How many orange trees are on the farm?

A. 28

C. 105

B. 77

D. 133

23. Ms. Kelly's class is collecting box tops for their school. Their goal is 200 box tops. On the first day, Shelly brought in 4 bags with 6 box tops in each bag, and Chuck brought in 8 bags with 8 box tops in each bag. Which equation can Ms. Kelly use to determine the number of box tops the class needs to reach their goal?

A. $B - 4 \times 8 + 8 \times 6 = 200$

B. $B - 4 \times 6 + 8 \times 8 = 200$

C. $(4 \times 6) + (8 \times 8) + B = 200$

D. $(4 \times 8) + (8 \times 6) + B = 200$

24. Which of the following are NOT factors of 24?

A. 3,8

C. 2,3,4

B. 4,6

D. 5,7

25. Which of the following numbers are all factors of 10?

A. 0, 2, 5, 10

C. 2, 4, 6, 8

B. 1, 2, 5, 10

D. 20, 30, 40, 50

26. Which of the following numbers is a multiple of both 5 and 15?

A. 5

C. 25

B. 20

D. 30

27. Which number is both a factor of 60 and a multiple of 3?

A. 1

C. 15

B. 2

D. 36

28. Look at the football player's shirts.



Which number on the shirts is a composite number?

A. 51

C. 59

B. 61

D. 47

29. Which of the following numbers is a PRIME number?

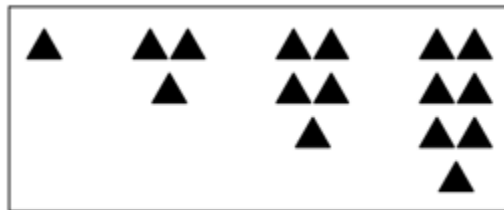
A. 4

C. 6

B. 5

D. 9

30. The pattern below starts with one triangle and follows the rule: Add 2 triangles to the top. The first four figures of the pattern are shown. Which statement describes the next figure in the pattern shown?



A. The next term will have 8 triangles, which is an even number.

B. The next term will have 9 triangles, which is an odd number.

C. The next term will have 10 triangles, which is an even number.

D. The next term will have 11 triangles, which is an odd number.

31. Look at the numbers. The pattern is add 10, multiply by 2. Which are the two numbers missing in the pattern?

5, 15, 30, 40, , 90, 180, , 380

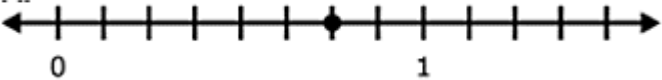
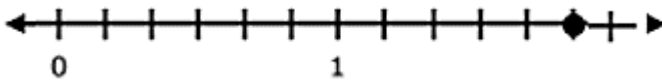
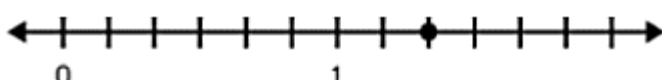
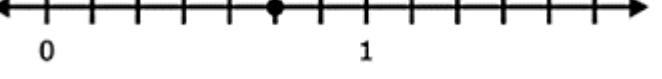
A. 50, 190

C. 50, 200

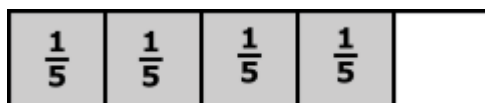
B. 80, 190

D. 80, 200

32. Which number line shows a representation of $\frac{8}{6}$?

- A. 
- B. 
- C. 
- D. 

33. Which fraction is equivalent to the number of shaded boxes in the rectangle?



- A.

$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	
----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	--
- B.

$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$		
----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------	--	--
- C.

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$		
---------------	---------------	---------------	---------------	--	--
- D.

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$				
---------------	---------------	---------------	---------------	--	--	--	--

34. Josh and Sammy are painting. They each have a piece of paper that is the same size.

Josh painted $\frac{1}{2}$ of his paper, and Sammy painted $\frac{2}{3}$ of her paper. Which comparison is correct for the fraction of paper Josh and Sammy each painted?

A. $\frac{1}{2} < \frac{2}{3}$

C. $\frac{1}{2} = \frac{2}{3}$

B. $\frac{1}{2} > \frac{2}{3}$

D. $\frac{1}{2} - \frac{2}{3}$

35. Which comparison is correct?

A. $\frac{6}{12} > \frac{5}{8}$

C. $\frac{6}{10} > \frac{5}{8}$

B. $\frac{2}{3} > \frac{5}{8}$

D. $\frac{5}{10} > \frac{5}{8}$

36. Tim added two fractions with denominators of 4 but with different numerators. The sum was $\frac{3}{4}$. Which two fractions did Tim add?

A. $\frac{1}{4}$ and $\frac{1}{4}$

C. $\frac{2}{4}$ and $\frac{1}{4}$

B. $\frac{1}{4}$ and $\frac{3}{4}$

D. $\frac{4}{4} - \frac{2}{3}$

37. Solve

$$\frac{2}{6} - \frac{1}{6}$$

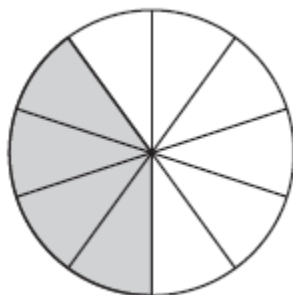
A. $\frac{1}{6}$

C. $\frac{3}{6}$

B. $\frac{1}{2}$

D. 1

38. The figure below is divided into equal sections.



Which expression represents the fraction of the figure that is shaded?

A. $\frac{1}{10} + \frac{2}{10} + \frac{3}{10}$

B. $\frac{1}{10} + \frac{1}{10} + \frac{2}{10}$

C. $\frac{3}{10} + \frac{3}{10} + \frac{4}{10}$

D. $\frac{4}{10} + \frac{4}{10} + \frac{4}{10}$

39. Alexi decompose $1\frac{2}{4}$ into the expression $1 + \frac{1}{4} + \frac{1}{4}$. Which shows another way to decompose $1\frac{2}{4}$ into a sum of fractions?

A. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

B. $\frac{4}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

C. $\frac{1}{4} + \frac{1}{4} + \frac{3}{4}$

D. $\frac{4}{4} + \frac{2}{4}$

40. Jasmine spent $3\frac{1}{4}$ hours at the park. Kyle spent $1\frac{2}{4}$ hours at the same park. How much longer, in hours, did Jasmine spend at the park than Kyle?

41. In a box of pencils, $\frac{1}{8}$ of the pencils are blue and $\frac{5}{8}$ of the pencils are green. The rest of the pencils are red. What fraction of the box of pencils is red?

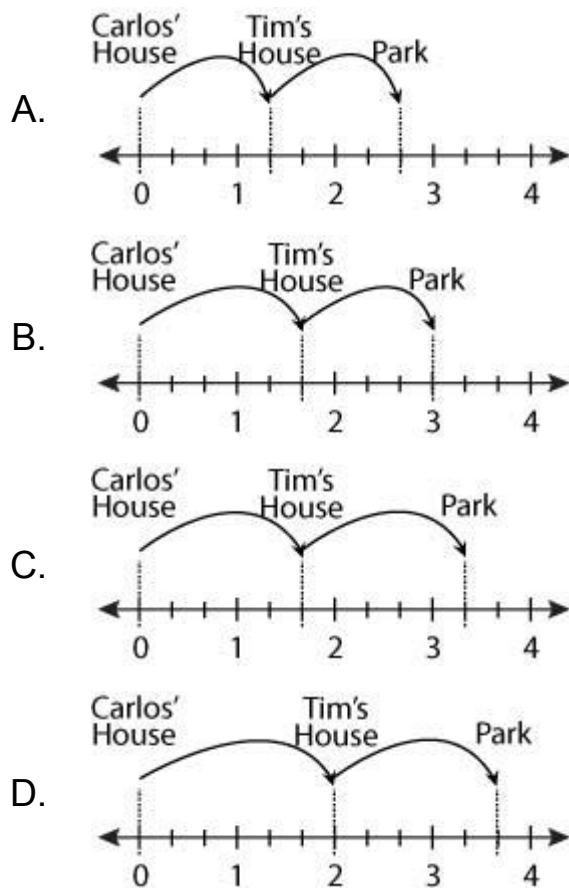
A. $\frac{1}{4}$

B. $\frac{3}{8}$

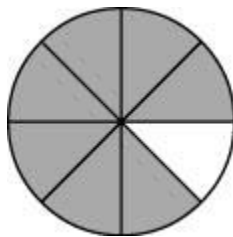
C. $\frac{5}{8}$

D. $\frac{3}{4}$

42. Carlos rode his bike $1\frac{2}{3}$ miles to Tim's house. When he left Tim's house, Carlos rode $1\frac{2}{3}$ miles to the park. Which number line shows the total number of miles that Carlos rode his bike from his house to the park?



43. This circle has 8 equal parts, and 7 are shaded.



Which is the same as $\frac{7}{8}$?

- A. $7 \div \frac{1}{8}$
- B. $7 + \frac{1}{8}$
- C. $7 \times \frac{1}{8}$
- D. $8 \times \frac{1}{7}$

44. Leah uses at least $\frac{2}{5}$ feet of yarn for each sock puppet she makes. Which expression represents the least amount of yarn, in feet, she will need to make 10 sock puppets?

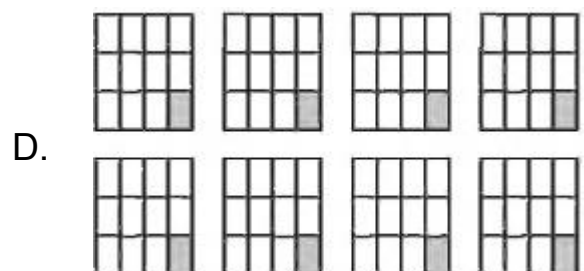
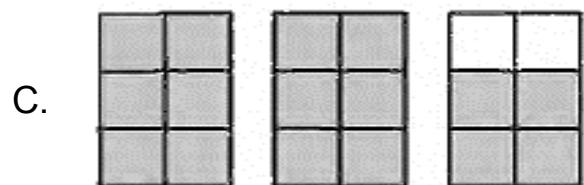
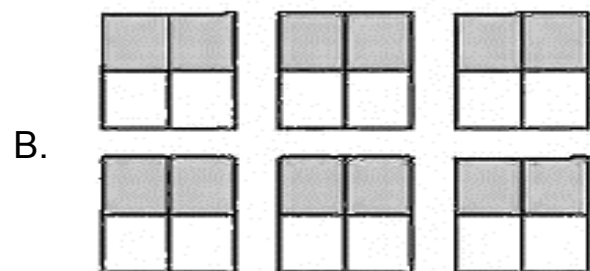
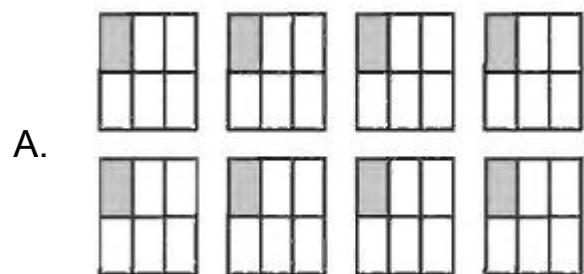
A. $\frac{2}{5} \times 10$

C. $\frac{5}{10} + 1$

B. $\frac{10}{5}$

D. $\frac{10}{5} \div 2$

45. Which set of models is equivalent to the expression $2 \times \frac{4}{6}$?



46. Chris wants to make 5 bowls of mashed potatoes for a party. Each bowl of mashed potatoes needs $\frac{2}{3}$ cup of water. Which expression shows how much water Chris will need to make all 5 bowls of mashed potatoes?

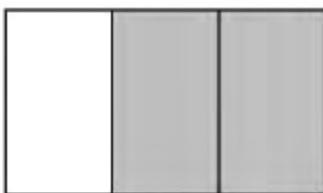
A. $5 + \frac{2}{3}$

C. $5 \times \frac{2}{3}$

B. $5 - \frac{2}{3}$

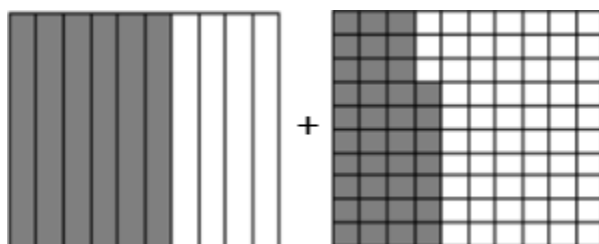
D. $5 \div \frac{2}{3}$

47. Jason makes aprons. The shaded part below represents the fraction of a yard of fabric he uses for each apron.



How many yards of fabric, in all, will Jason need to make 14 aprons?

48. Solve



49. Write the number that makes the equation true.

$$\square + \frac{3}{100} = \frac{53}{100}$$

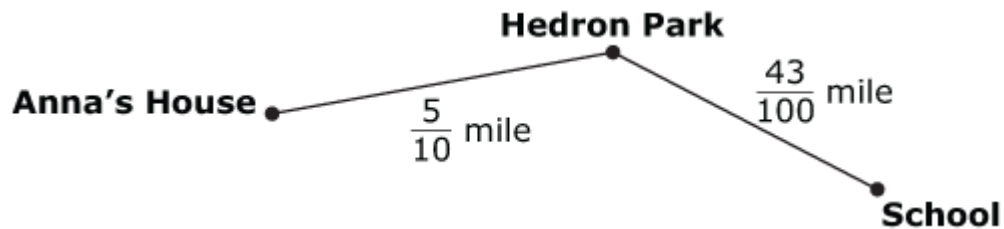
A. $\frac{10}{100}$

C. $\frac{5}{10}$

B. $\frac{5}{100}$

D. $\frac{50}{10}$

50. Each morning, Anna walks from her house to Hedron Park and then to the school. The picture below shows the distance she walks.



What is the total distance, in miles, that Anna walks each morning to get from her house to the school?

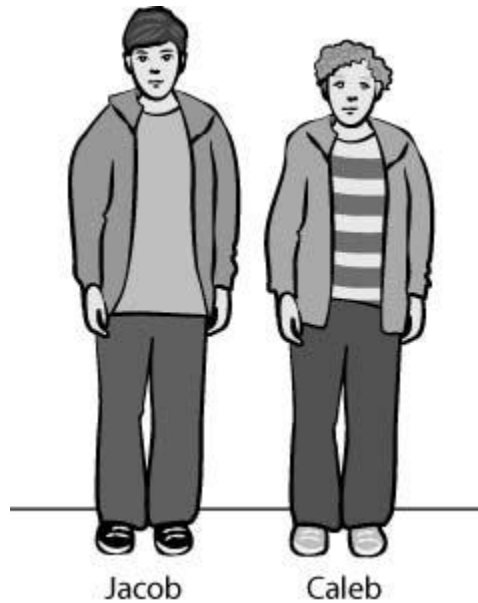
A. $\frac{48}{110}$

C. $\frac{93}{110}$

B. $\frac{48}{100}$

D. $\frac{93}{100}$

54. Caleb is 1.52 meters tall. He is shorter than Jacob.



Which of the following can be Jacob's height?

- | | |
|-----------|-----------|
| A. 1.6 m | C. 1.50 m |
| B. 1.49 m | D. 1.5 m |
-

55. Which decimal number is between 0.15 and 0.19?

- | | |
|---------|---------|
| A. 0.14 | C. 0.20 |
| B. 0.17 | D. 1.17 |
-

56. Select all of the inequalities that are true.

- A. $0.2 > 0.25$
- B. $0.32 < 0.65$
- C. $4.8 > 4.08$
- D. $0.13 = 0.31$
- E. $\$4.16 > \0.16
- F. $3.4 < 3.40$