Rising 6th Grade Summer Math Packet

Dear Parents and Students,

Attached you will find the rising 6th grade summer math packet. This packet includes important material that your child needs to know and understand coming into the 6th grade. Along with the packet, I have included a page that has example problems for many of the sections. In addition, I have found that YouTube videos and Khan Academy provide some awesome videos and other resources that can be helpful.

In order to receive **full credit, the students must **show ALL work**. This includes problems that have multiple choice answers. The work must be included showing how the choice was picked. The packet is due on the first day of school. Each day the packet is late, a letter grade will be dropped.

Please do not hesitate to contact me at mbishop@bullochacademy.com if your child has any questions.

Sincerely,

Madison Bishop

Math Packet Topic Review

Topic: Comparing and Ordering Whole Numbers	Topic: Rounding Whole Numbers
Ex: $3,460$ $\boxed{<}$ $3,470$ Ex: 9 is greater than 2 $9 > 2$	Ex: Round to underlined place-value position. $341,6\underline{\textcircled{7}}2$ $341,700$

Topic: Adding and Subtracting Whole Numbers	Topic: Multiplying and Dividing Whole Numbers
Ex: $38,462 + 7,228$ $\overset{+1 \quad +1}{38,462}$ $+ \;\; 7,228$ $\overline{45,690}$	Ex: $1,461 \times 32 =$ 1461 $\times \;\; 32$ $\overline{2922}$ 43830 $\overline{46,752}$ Ex: $55\overline{)64,585}$ $1,174$ R.1 $\underline{-55}$ 95 $\underline{-55}$ 407 $\underline{-385}$ 235 $\underline{-220}$ 15

Topic: Operations with Whole Numbers	Topic: Using Order of Operations
Ex: $81,912 - 846 =$ $81,\overset{8\;10}{9\cancel{1}2}$ $- \;\;\; 846$ $\overline{81,066}$	Ex: $\underline{36 \div 2} - \underline{5 \times 2}$ $18 \;\; - \;\; 10$ $\textcircled{8}$

Topic: Using Order of Operations with Parentheses	Topic: Using Order of Operations with Powers
Ex: $39 \div (3+10) \times 5 + 17$ $39 \div 13 \times 5 + 17$ $3 \times 5 + 17$ $15 + 17$ $\textcircled{32}$	Ex: $(2^3 \times 4 - 2) \div 3 \times 10$ $(8 \times 4 - 2) \div 3 \times 10$ $(32 - 2) \div 3 \times 10$ $30 \div 3 \times 10$ 10×10 $\textcircled{100}$

Topic: Greatest Common Factor	Topic: Adding and Subtracting Decimals

Topic: Greatest Common Factor

55, 110, 155

55 $\wedge$ 5 11

110 $\wedge$ 2 55 $\wedge$ 5 11

155 $\wedge$ 5 31

5 × 11
2 × 5 × 11
5 × 3 1

$\boxed{GCF = 5}$

Topic: Adding and Subtracting Decimals

$Ex: 85.67 + 72.75 =$

$$85.\overset{1}{6}\overset{1}{7}$$
$$\underline{72.75}$$
$$158.42$$

Topic: Equivalent Fractions

Ex: Find three fractions equivalent to each given fraction.

Given Fraction: $\frac{1}{10}$

$\frac{1}{10} \times \frac{2}{2} = \boxed{\frac{2}{20}}$ $\frac{1}{10} \times \frac{3}{3} = \boxed{\frac{3}{30}}$ $\frac{1}{10} \times \frac{4}{4} = \boxed{\frac{4}{40}}$

Topic: Simplifying Fractions

Ex: Write In simplest terms:

a. $\frac{3}{36} \div \frac{3}{3} = \frac{1}{12}$

b. $\frac{5}{50} \div \frac{5}{5} = \frac{1}{10}$

Topic: Mixed Numbers and Improper Fractions

Ex: Write the mixed number as an improper fraction.

$9\frac{8}{9}$

$= \frac{89}{9}$

(multiply denominator times whole number and add numerator. Put that number over denominator.)

Topic: Adding and Subtracting Fractions with Like Denominators

$Ex: \quad 57\frac{11}{12}$
$\quad\quad \underline{-43\frac{5}{12}}$
$\quad\quad\quad 14\frac{6}{12} = 14\frac{1}{2}$

Summer Math - Rising 6th Grade WEEK 1

1. Evaluate the expression using order of operations:

$$10 - 3 \times 2 + 5$$

A. 19

B. 10

C. 9

D. 7

5.OA.1

4. 58 x 27=

A. 1,565

B. 1,566

C. 1,576

D. 1,567

5.NBT.5

2. $\frac{1}{6} + \frac{1}{3} =$

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

B. $\frac{5}{6}$

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

D. $\frac{2}{6}$

5.NF.1

5. What is the value of the underlined digit?   1,4<u>8</u>5,109

A. 80,000

B. 8,000

C. 800,000

D. 800

5.NBT.1

3. 17 km = _____ m

A. 170

B. 1,700

C. 17,000

D. 170,000

5.MD.1

6. 27,940 ÷ 55 =

A. 408

B. 409

C. 509

D. 508

5.NBT.6

Summer Math - Adding & Subtracting Decimals
WEEK 1

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

$$1.45 + 1.10$$

$$25.3 + 1.4$$

$$105.7 + 24.5$$

$$42.56 + 6.03$$

$$0.15 + 0.84$$

$$1.45 + 3.10$$

$$483.61 + 19.37$$

$$87.55 + 66.78$$

$$305.9 - 34.3$$

$$974.9 - 601.5$$

$$45.89 - 1.41$$

$$3.97 - 1.03$$

$$24.05 - 10.50$$

$$562.25 - 148.77$$

$$191.51 - 37.99$$

$$11.00 - 5.87$$

Summer Math - Rising 6th Grade WEEK 2

7. Complete the pattern:

$$134 \div 1 = 134$$
$$134 \div 10 = 13.4$$
$$134 \div 100 = 1.34$$
$$134 \div 1000 = \underline{\hspace{2cm}}$$

A. 0.0134
B. 0.134
C. 1.34
D. 13.4

5.NBT.2

10. $35.76 - 10.85 =$

A. 24.81
B. 25.81
C. 24.91
D. 25.91

5.NBT.7

8. Juan bought 2 pairs of shoes that cost $28.15 and $21.99. What was the total cost of both pairs?

A. $49.24
B. $49.14
C. $50.24
D. $50.14

5.NBT.7

11. $\frac{3}{7} \times 7$ will be _____ 7

A. Equal to
B. Greater than
C. Less than
D. Greater than or equal to

5.NF.5a

9. $5.71 \times 4 =$

A. 22.84
B. 2.84
C. 21.84
D. 2.184

5.NBT.7

12. Rebecca is framing a photo that has a width of 12 inches. The length of the photo is $1\frac{1}{3}$ times as long as it is wide. What is the length of the photo?

A. 8 inches
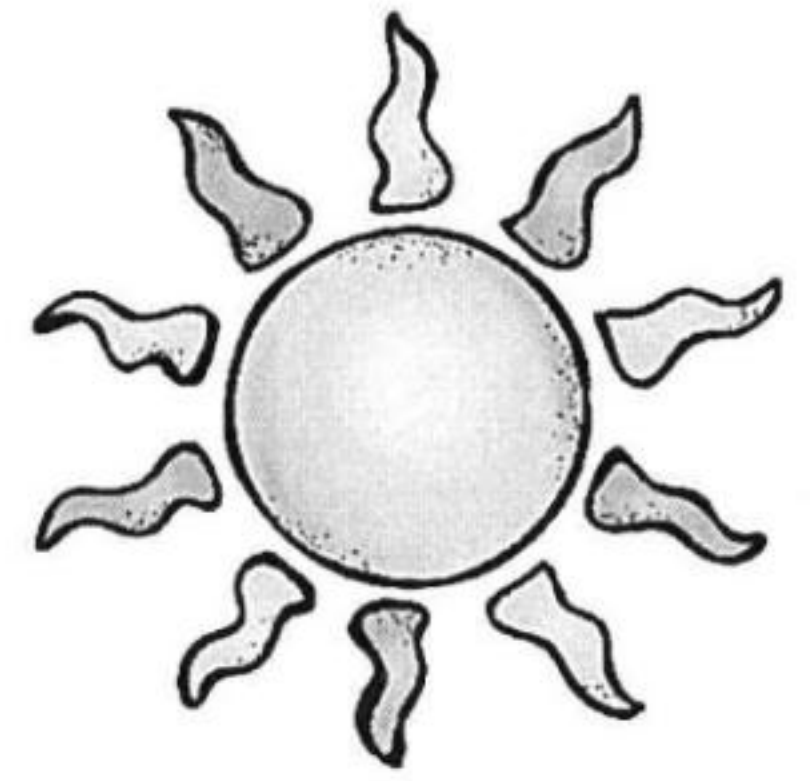B. 16 inches
C. 24 inches
D. 36 inches

5.NF.5b

Summer Math - Multi Digit Addition
WEEK 2

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

$$121,432 + 32,460$$

$$24,567 + 7,321$$

$$33,658 + 8,412$$

$$42,749 + 9,503$$

$$518,316 + 98,694$$

$$609,213 + 87,785$$

$$790,175 + 76,876$$

$$881,509 + 65,967$$

$$9,729,421 + 454,058$$

$$1,638,519 + 343,149$$

$$2,547,698 + 232,230$$

$$3,456,787 + 1,121,321$$

Summer Math- Rising 6th Grade WEEK 3

13. 719 x 8 =

A. 5,752

B. 5,742

C. 5,852

D. 5,842

5.NBT.5

14. Mark has 8 pieces of pizza that he wants to give equally to 6 friends. How many pieces will each friend get?

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

B. $1\frac{5}{6}$

C. $\frac{1}{48}$

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

5.NF.3

15. What is the ordered pair for the given point?

A. (6,4)

B. (6,3)

C. (4,6)

D. (3,6)

5.G.1

16. Julia used a table to find how many chocolate chips to use for her chocolate chip cookies.

Cups of Chocolate Chips in Cookies				
Cookies	15	30	45	60
Cups of Chocolate Chips	1	2	3	4

What rule relates to the number of Cookies and the Cups of Chocolate Chips?

A. Divide by 15

B. Add 15

C. Subtract 15

D. Multiply by 5

5.OA.3
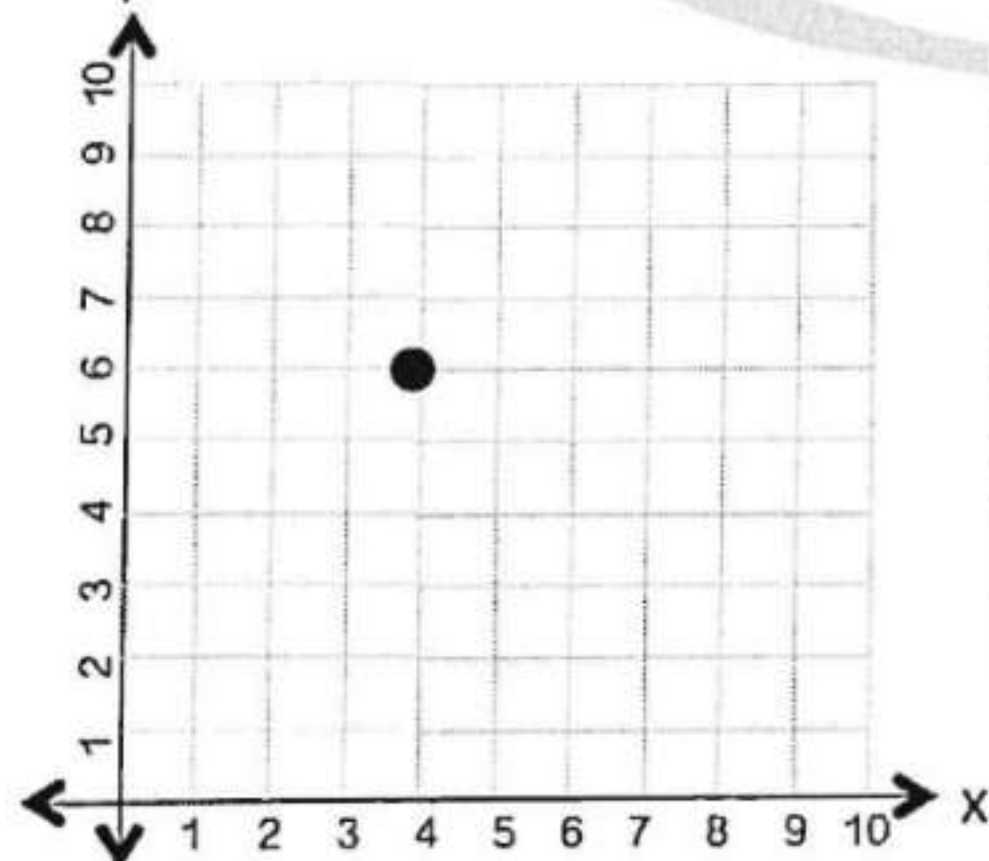
17. What is the volume of this rectangular prism?
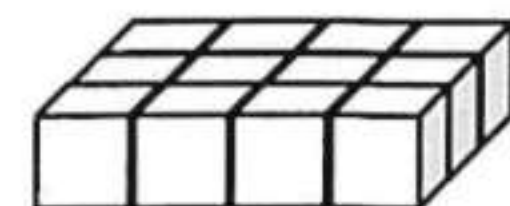
A. 4 unit cubes

B. 12 unit cubes

C. 16 unit cubes

D. 20 unit cubes

5.MD.3a

Summer Math - Multiplication
WEEK 3

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

224×2

315×3

235×4

147×5

$3,505 \times 6$

461×7

$6,705 \times 2$

880×8

591×8

$9,182 \times 5$

325×6

$4,130 \times 5$

$7,411 \times 6$

$9,520 \times 7$

$8,613 \times 8$

$6,721 \times 9$

Summer Math - Rising 6th Grade WEEK 4

18. It costs $8.95 to play mini golf. If Eric plays 3 times, how much total did it cost?

    A. $24.75

    B. $24.85

    C. $26.85

    D. $26.75

    5.NBT.7

19. What is the decimal shown by the shaded part?

    A. 0.38

    B. 3.8

    C. 38

    D. 380
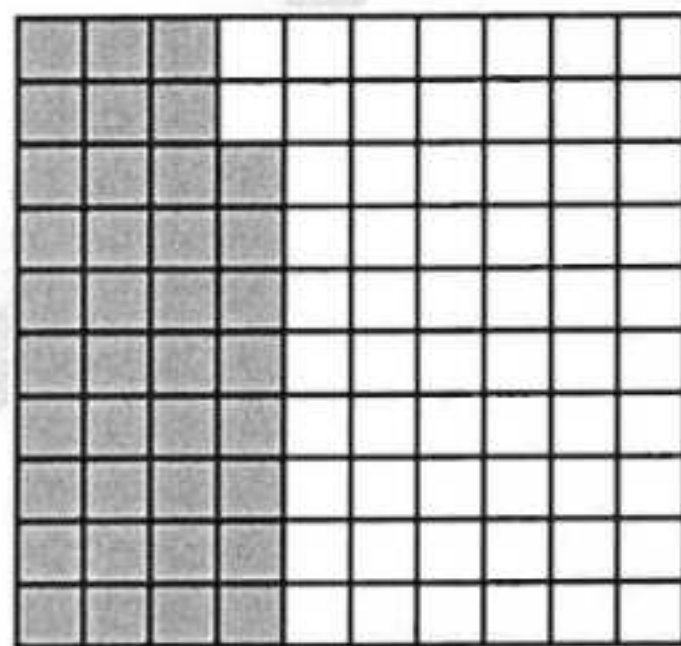
    5.NBT.1

20. $4.31 - 2.5 =$

    A. 2.71

    B. 2.81

    C. 1.71

    D. 1.81

    5.NBT.7

21. The data in the table below shows the number of people at the beach 1 hour, 2 hours, 3 hours, and 4 hours after noon. Which graph below display this data?

Number of People at Beach				
Hours after noon	1	2	3	4
Number of People	1	3	5	10

    A

    B

    C

    D
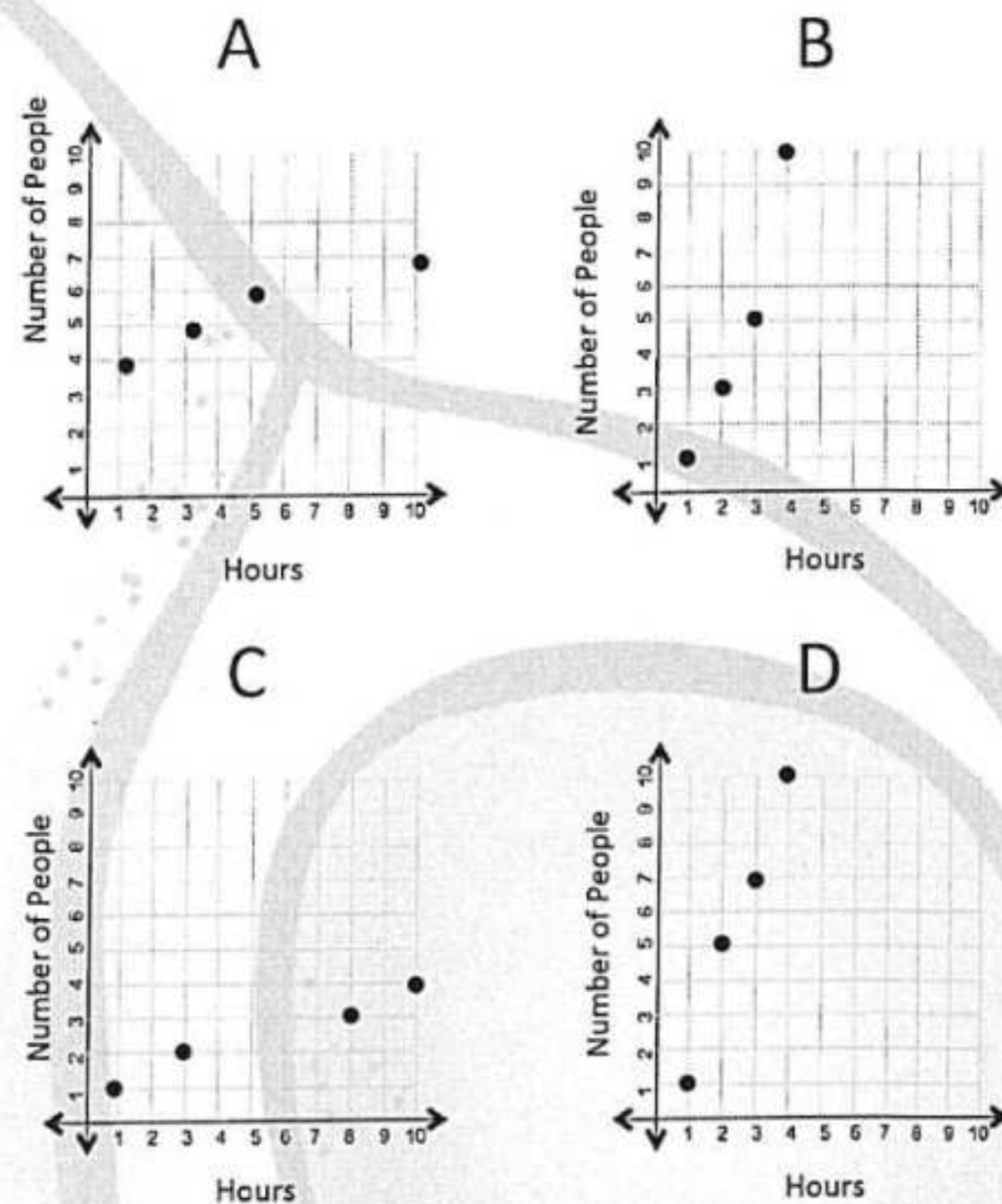
    5.G.2

22. $5\frac{3}{5} - 2\frac{3}{10} =$

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

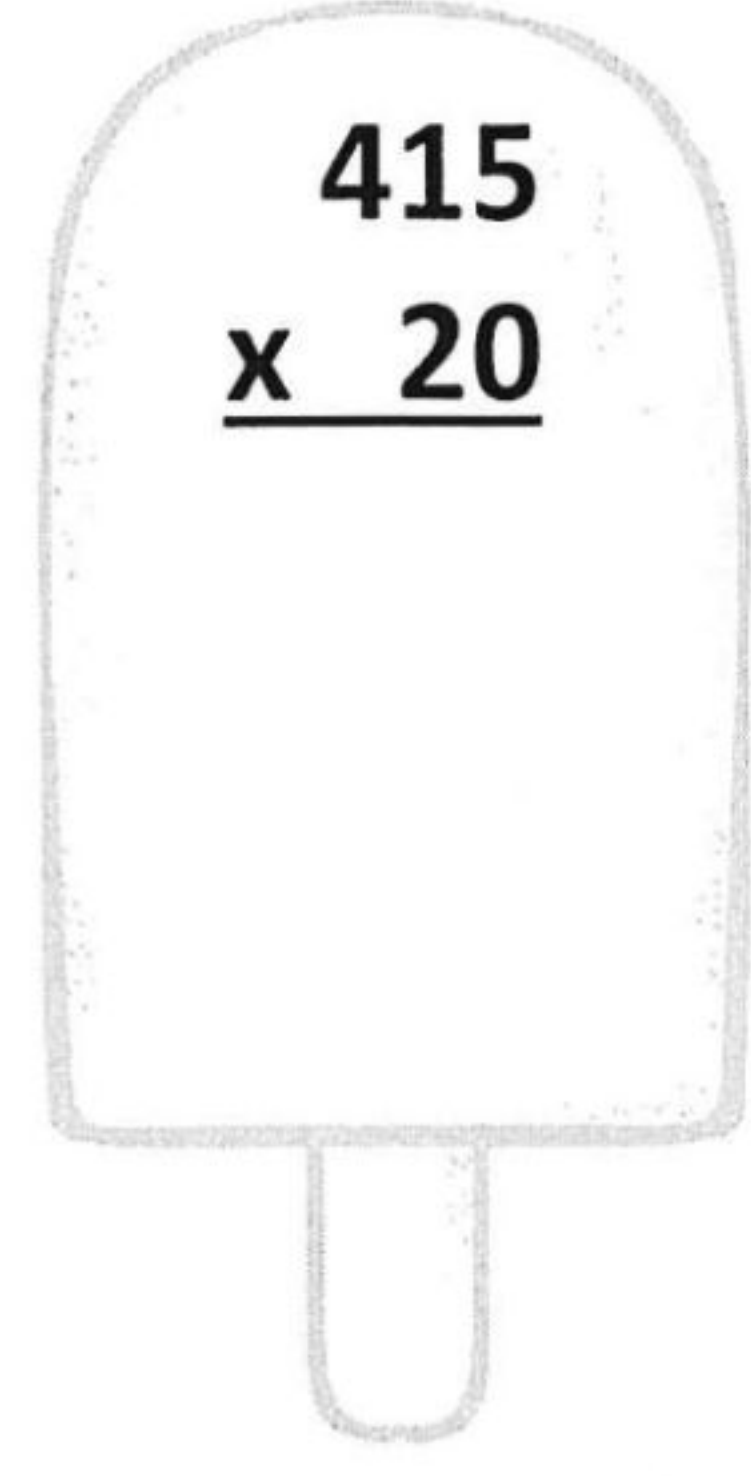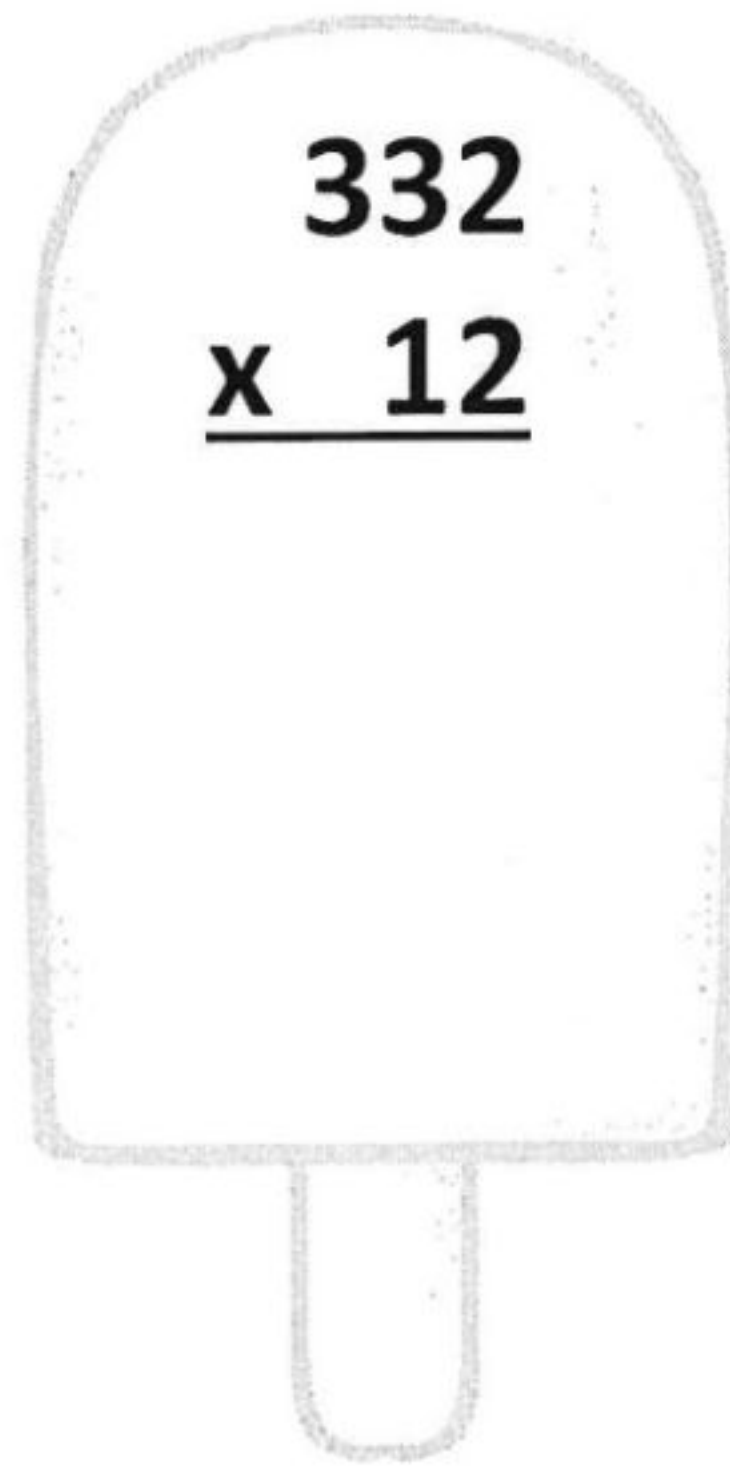   B. $3\frac{3}{10}$

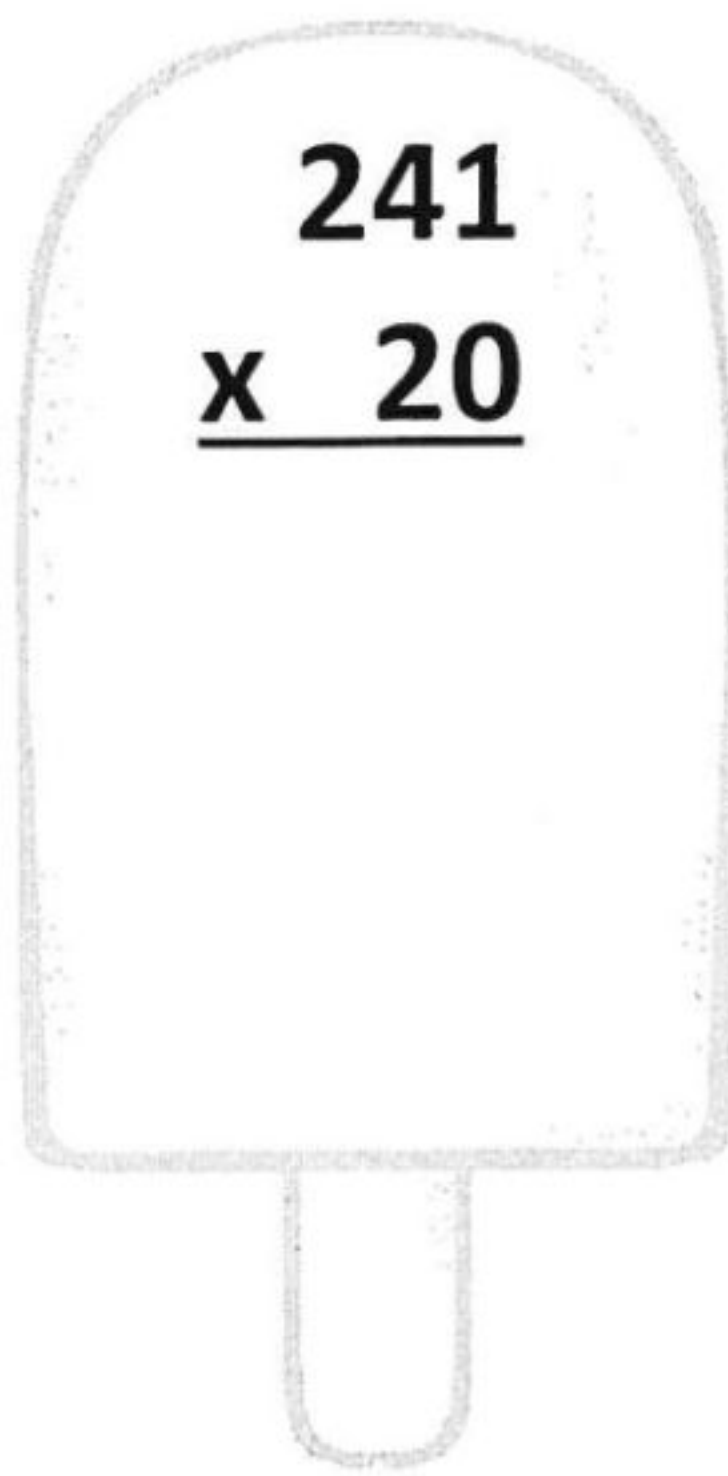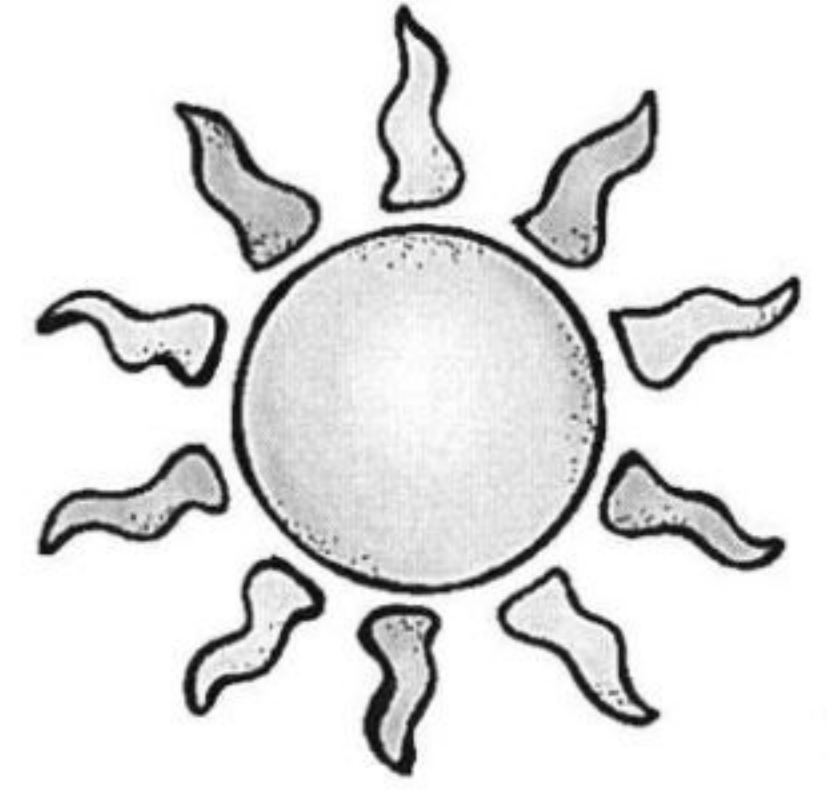   C. $3\frac{3}{5}$

    D. $2\frac{3}{5}$
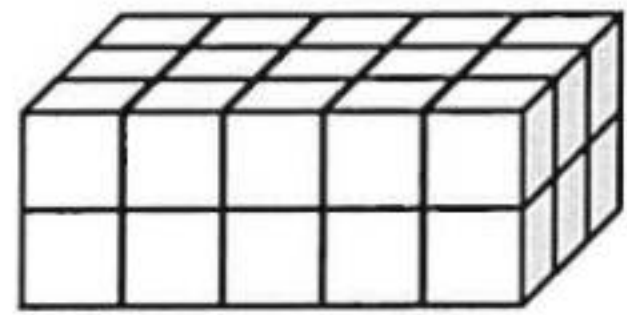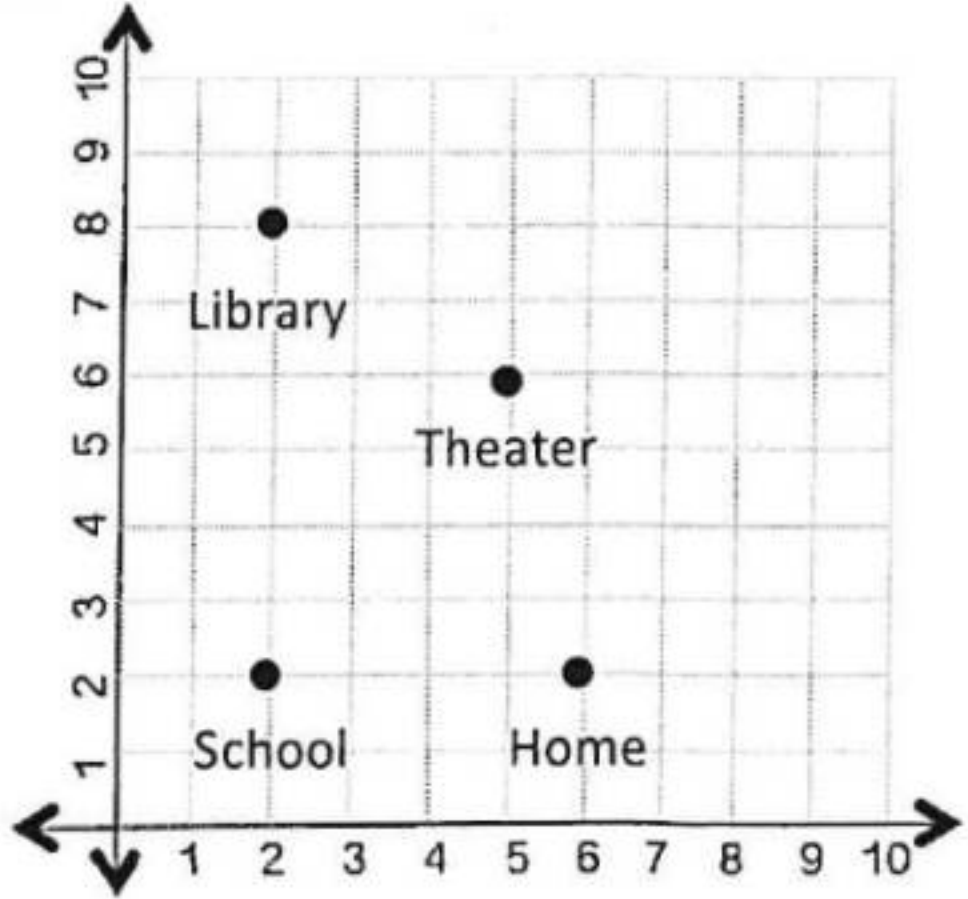
    5.NF.1

Summer Math - Multiplication
WEEK 4

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

$$241 \times 20$$

$$332 \times 12$$

$$125 \times 13$$

$$415 \times 20$$

$$585 \times 31$$

$$670 \times 22$$

$$765 \times 31$$

$$851 \times 52$$

Summer Math - Rising 6th Grade WEEK 5

23. Use rounding to estimate

    $5.02 + 0.89 + 1.9$

    A. 9

    B. 6

    C. 7

    D. 8

    5.NBT.7

26. $\frac{1}{6} \times 24 =$

    A. 4

    B. 5

    C. 6

    D. 7

    5.NF.4a

24. $3\frac{1}{2} \times 1\frac{1}{7} =$

    A. 3

    B. 4

    C. 6

    D. 5

    5.NF.6

27. Evaluate the expression

    $50 \div [(2 \times 3) + (4 \div 1)]$

    A. 20

    B. 15

    C. 10

    D. 5

    5.OA.1

25. What is the volume if the length of 1 cube is 1 foot?

    A. 30 ft³

    B. 24 ft³

    C. 15 ft³

    D. 40 ft³

    5.MD.5a, 5.MD.4, 5.MD.3b

28. Each unit is 1 mile. How far is the school from home?

    A. 3 miles

    B. 6 miles

    C. 4 miles

    D. 5 miles

    5.G.2

Summer Math - Subtraction
WEEK 5

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

$$2,084 - 100$$

$$41,795 - 2,123$$

$$6,209 - 3,345$$

$$53,517 - 2,563$$

$$34,975 - 2,671$$

$$7,568 - 5,905$$

$$96,555 - 2,126$$

$$8,741 - 4,349$$

$$58,063 - 35,601$$

$$99,521 - 3,782$$

$$60,571 - 19,902$$

$$81,360 - 9,121$$

$$72,589 - 53,499$$

$$93,598 - 65,637$$

$$284,087 - 57,896$$

$$3,565,796 - 159,038$$

Summer Math - Rising 6th Grade WEEK 6

29. 1880 ÷ 48 =

A. 39 R8

B. 39 R7

C. 38 R7

D. 38 R8

5.NBT.6

32. Name the place value to which this number was rounded.

0.826 to 0.83

A. Hundreds

B. Ones

C. Tenths

D. Hundredths

5.NBT.4

30. Natalie received $25 for her birthday. She used $10.15 of her birthday money to buy a gift for her friend. How much money did she have left?

A. $14.75

B. $14.85

C. $15.75

D. $15.85

5.NBT.7

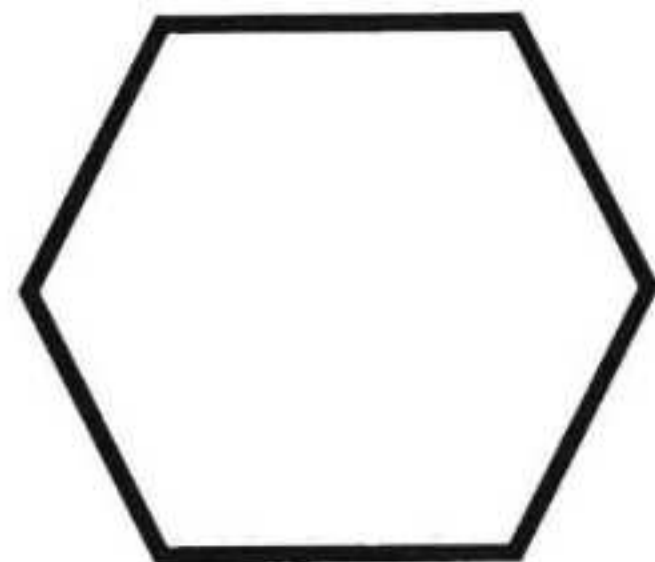33. 0.06 x 0.8 =

A. 4.8

B. 0.48

C. 0.048

D. 0.0048

5.NBT.7

31. What type of polygon is shown below?

A. Hexagon

B. Heptagon

C. Octagon

D. Pentagon

5.G.3

34. How would you describe this triangle?

A. Isosceles and acute

B. Isosceles and right
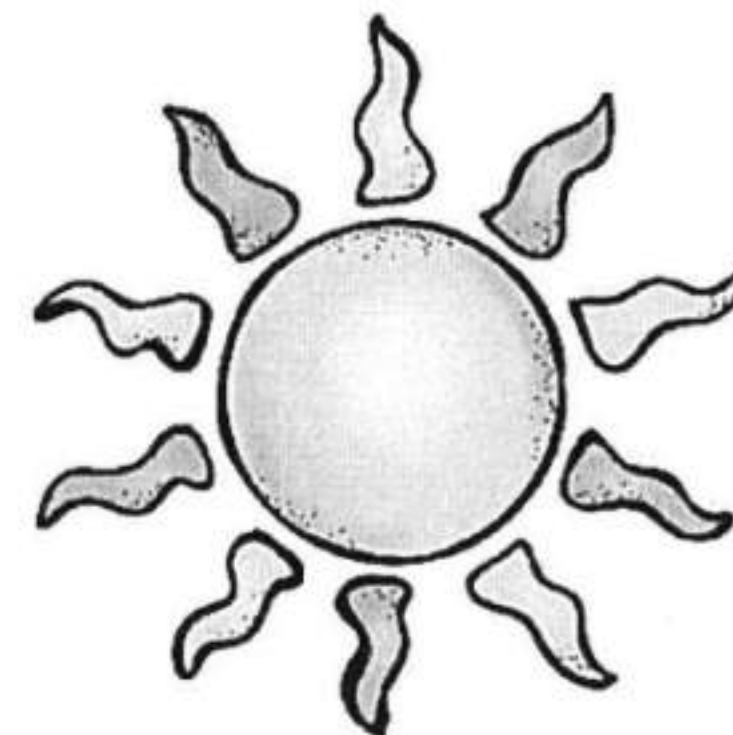
C. Scalene and acute

D. Scalene and right

5.G.3

Summer Math - Multiplying Decimals
WEEK 6

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

2.45
x 1.2

16.7
x 0.5

25.8
x 2.6

3.49
x 89

0.430
x 7.8

5.21
x 0.67

61.2
x 5.0

703
x 0.41

0.894
x 0.32

Summer Math - Rising 6th Grade WEEK 7

35. Using the graph and the table of ordered pairs, what is the missing number in the table?

x	y
10	5
8	4
6	3
4	
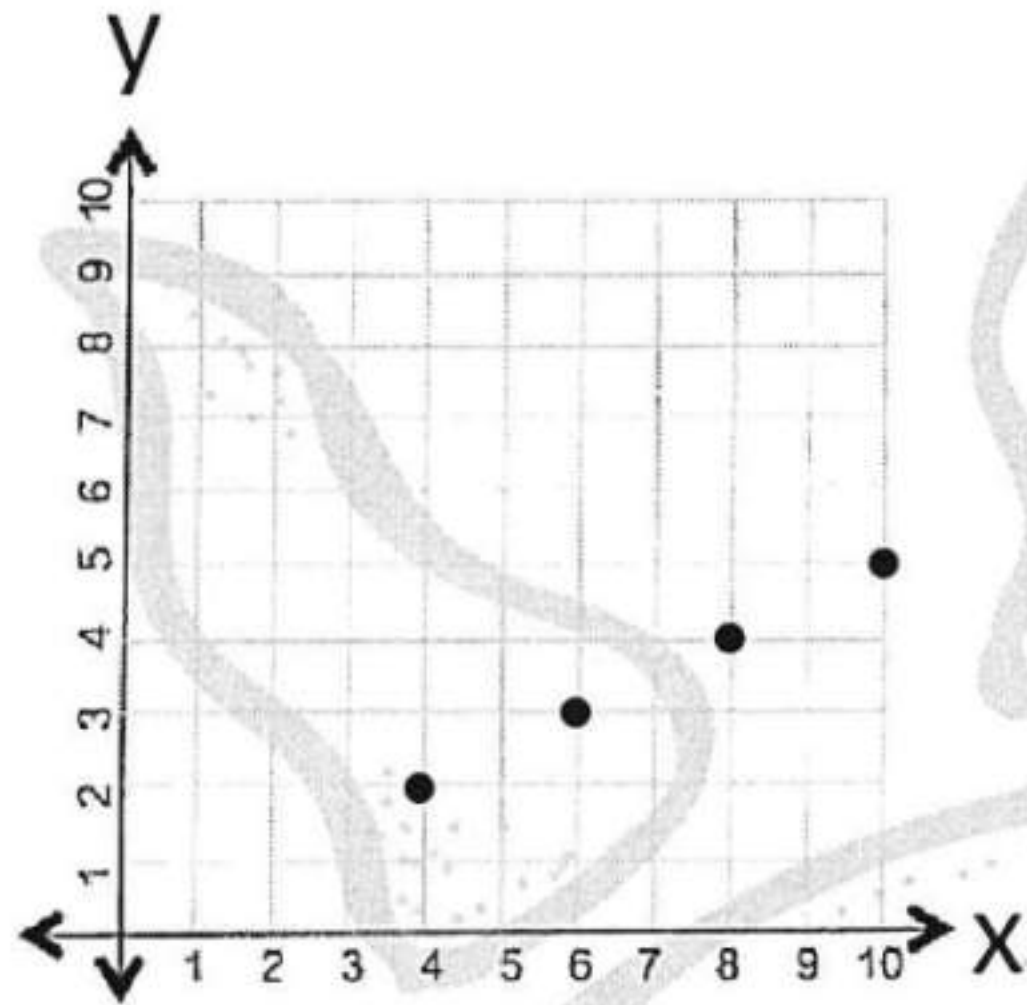
A. 2

B. 3

C. 4

D. 5

5.OA.3

37. Order from greatest to least

1.6, 1.61, 1.06, 1.66

A. 1.6, 1.06, 1.61, 1.66

B. 1.06, 1.6, 1.61, 1.66

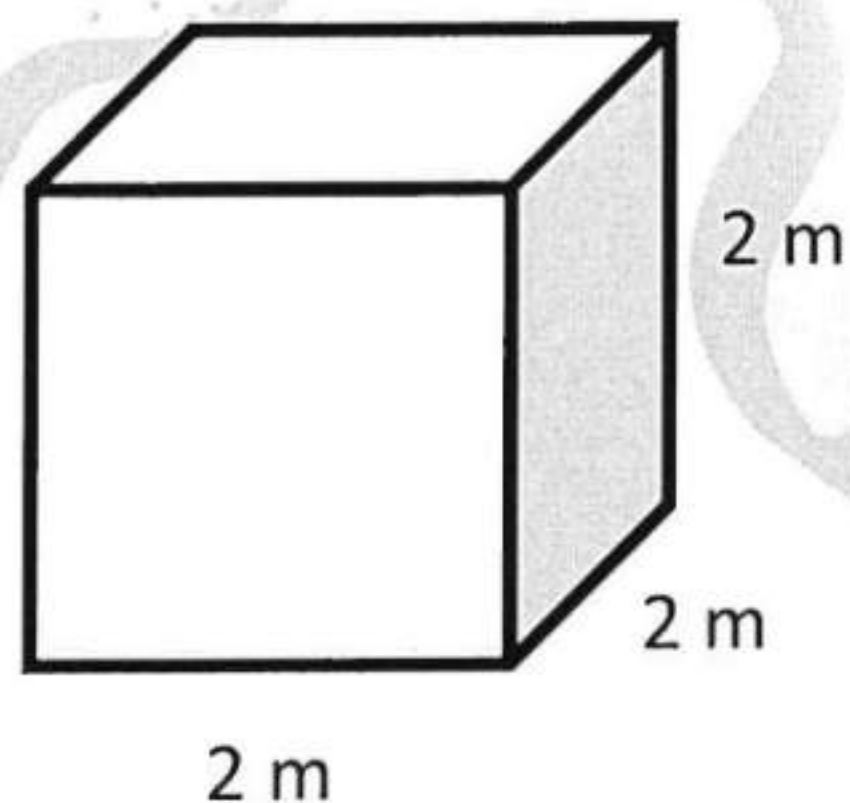C. 1.66, 1.61, 1.6, 1.06

D. 1.66, 1.61, 1.06, 1.6

5.NBT.3b

38. $\frac{1}{4} \times \frac{3}{5} =$

A. $\frac{3}{9}$

B. $\frac{5}{20}$

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

D. $\frac{3}{20}$

5.NF.4b

36. Find the volume of the cube.

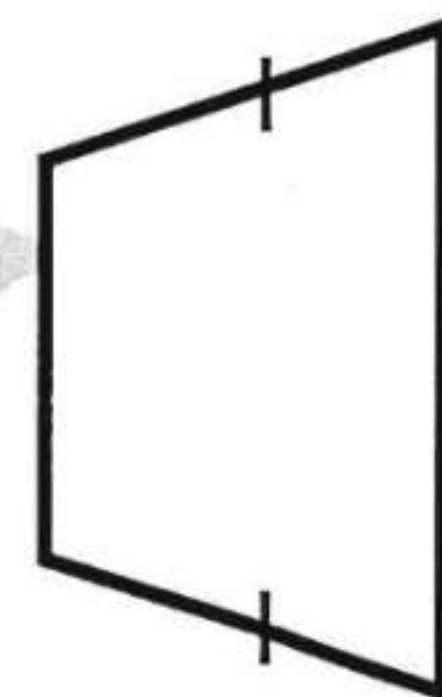A. 6 m³

B. 8 m³

C. 4 m³

D. 10 m³

2 m
2 m
2 m

5.MD.5b

39. What type of quadrilateral is shown below?

A. trapezoid

B. rhombus

C. rectangle

D. square

5.G.4

Summer Math - Long Division
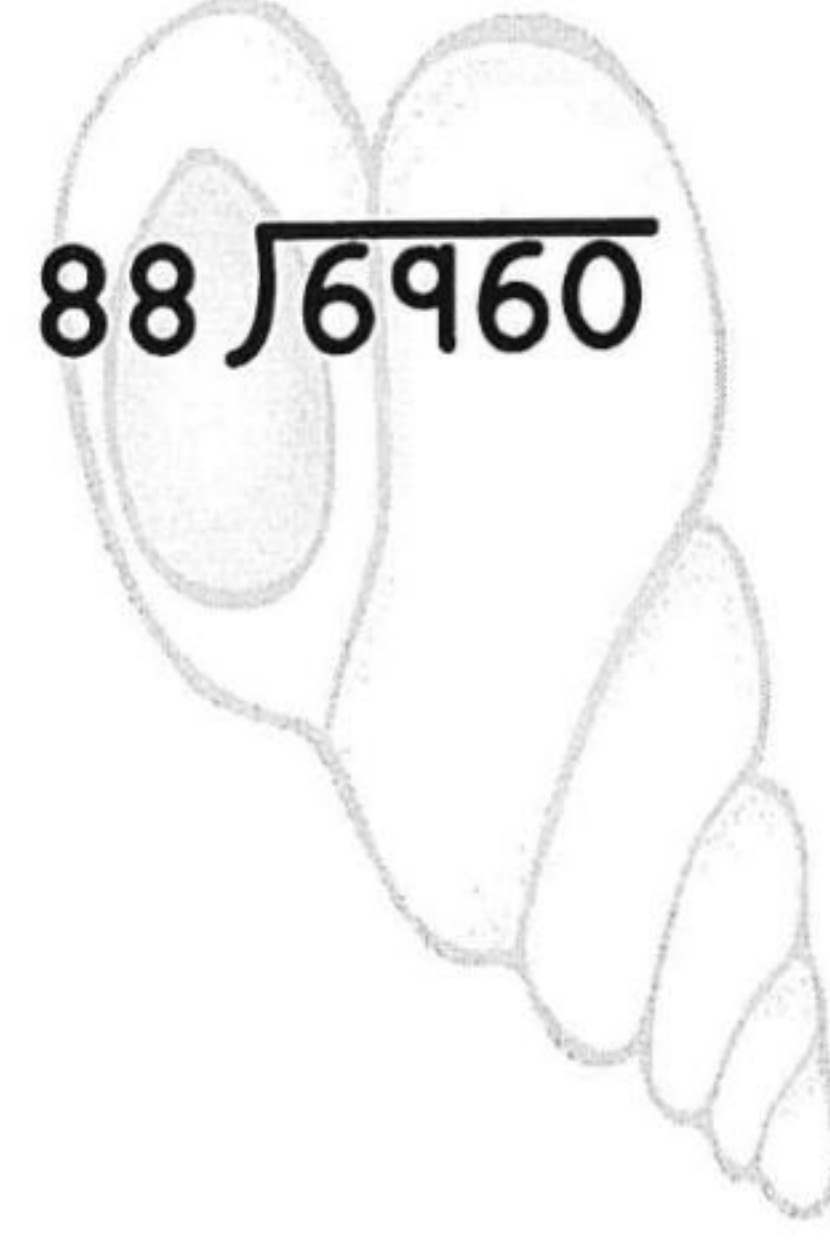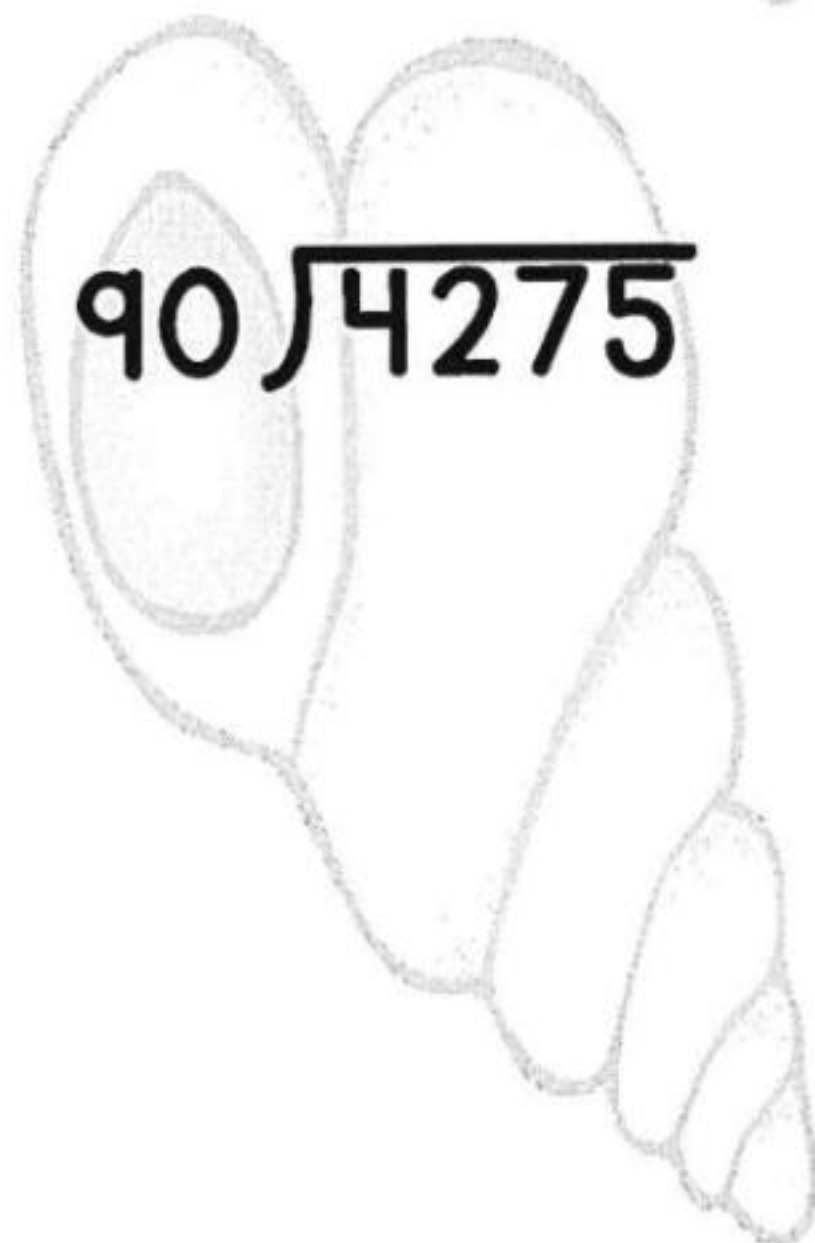## WEEK 7

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

$21\overline{)45}$

$35\overline{)290}$

$17\overline{)161}$

$42\overline{)1060}$

$55\overline{)2044}$

$74\overline{)3858}$

$90\overline{)4275}$

$63\overline{)3663}$

$88\overline{)6960}$
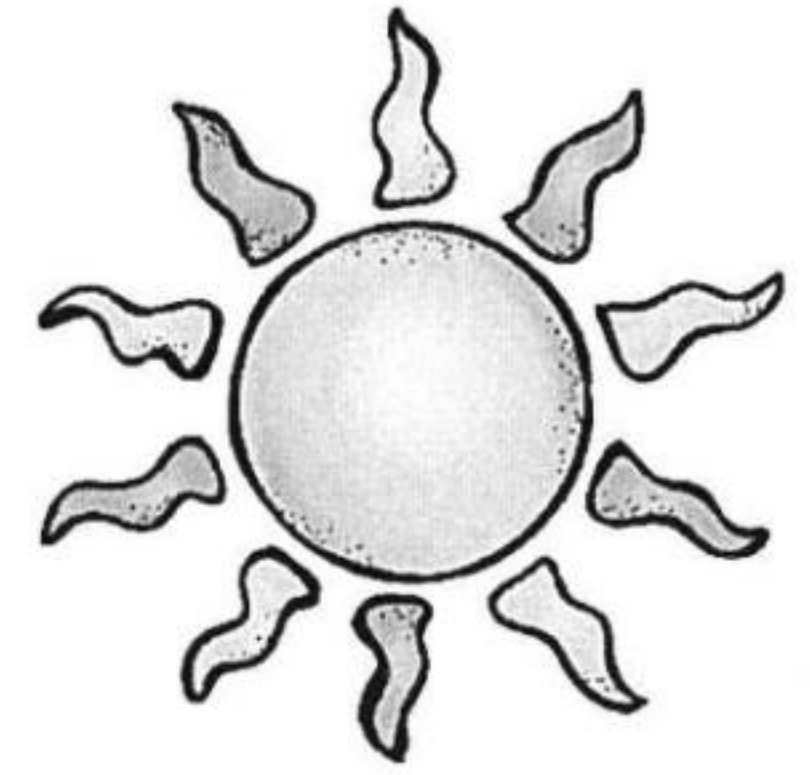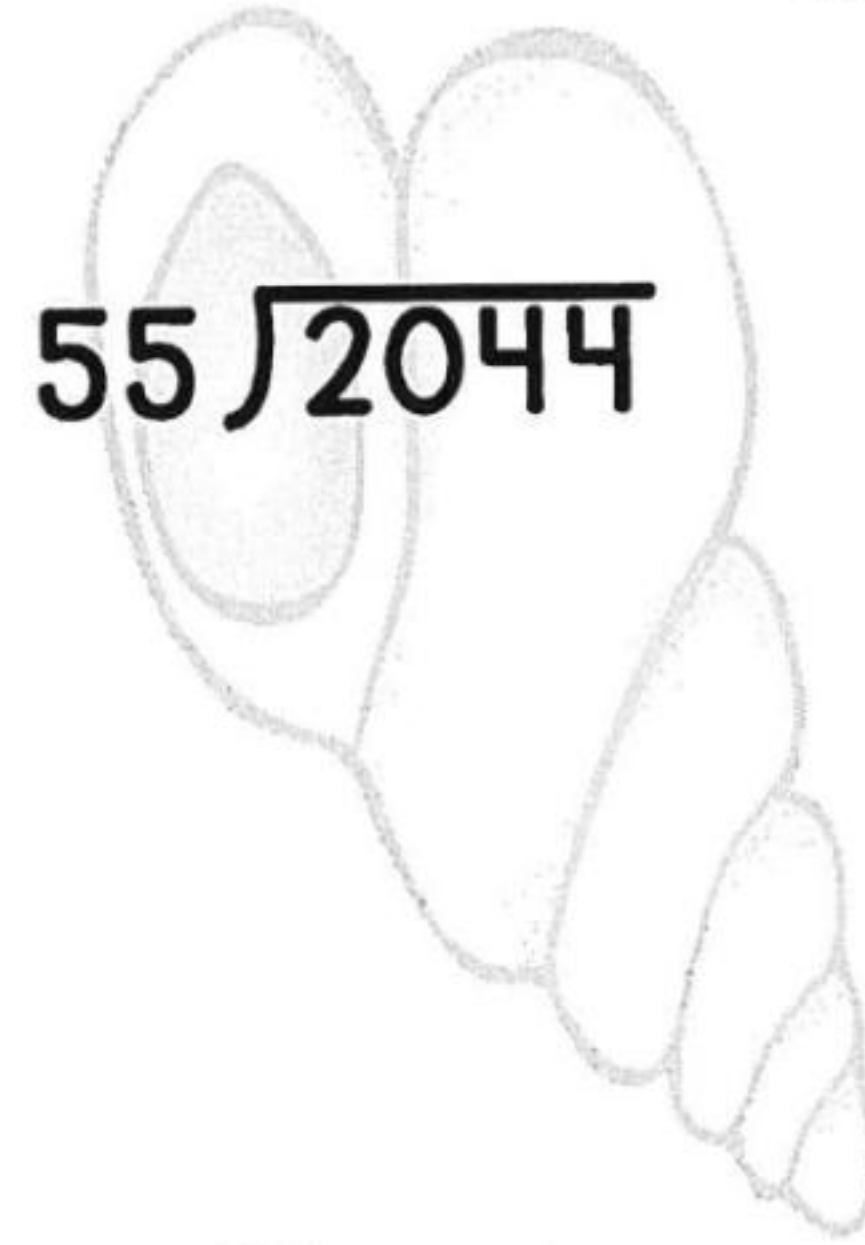
Summer Math - Rising 6th Grade WEEK 8

40. $1,752 \div 8 =$

A. 119

B. 219

C. 218

D. 209

5.NBT.6

41. John has ½ of an apple pie that he wants to divide evenly among 4 people. How much pie would each of the 4 people have?

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

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

C. $\frac{1}{8}$

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

5.NF.7a

42. $6 \times 10^3 =$

A. 6003

B. 610

C. 600

D. 6000

5.NBT.2

43. Find the volume of this figure.

5 cm
1 cm
3 cm
5 cm
4 cm 2 cm

A. 70 cm^3

B. 19 cm^3

C. 100 cm^3

D. 35 cm^3

5.MD.5

44. $0.07\overline{)0.315}$
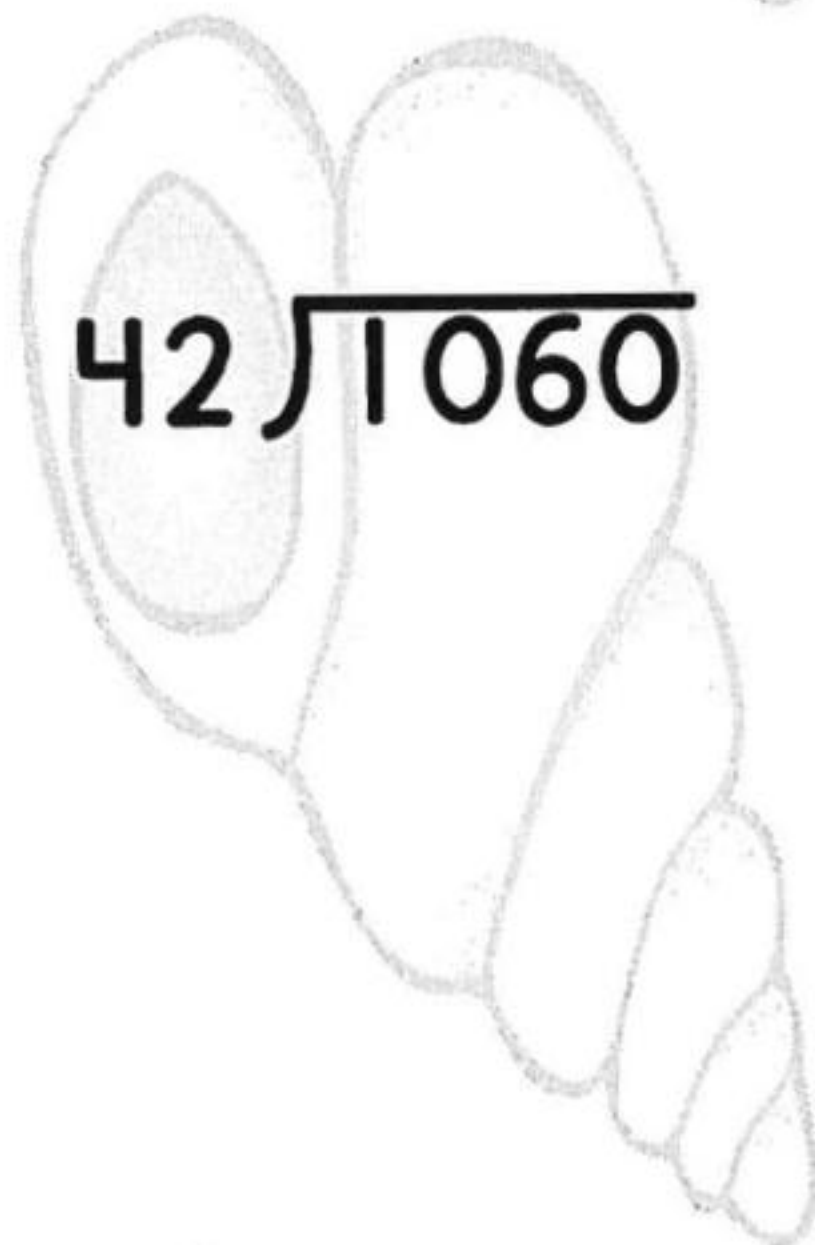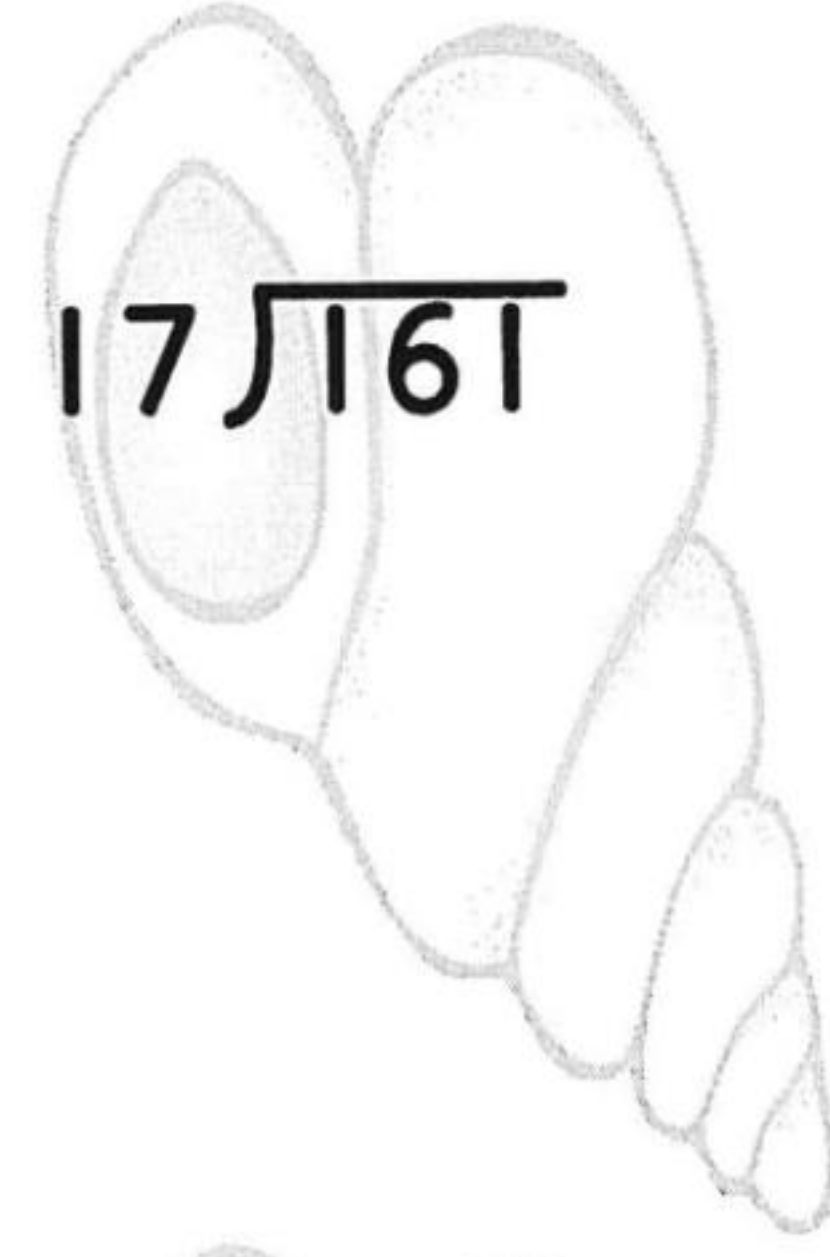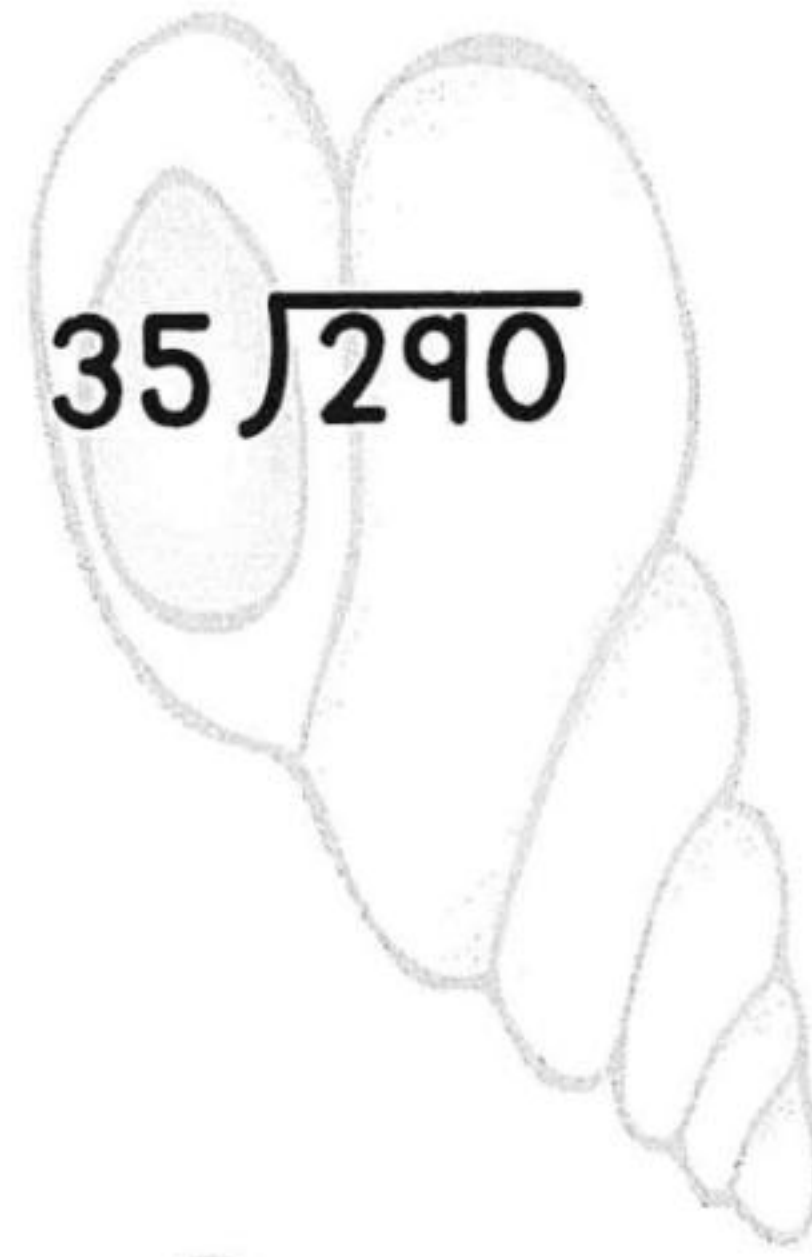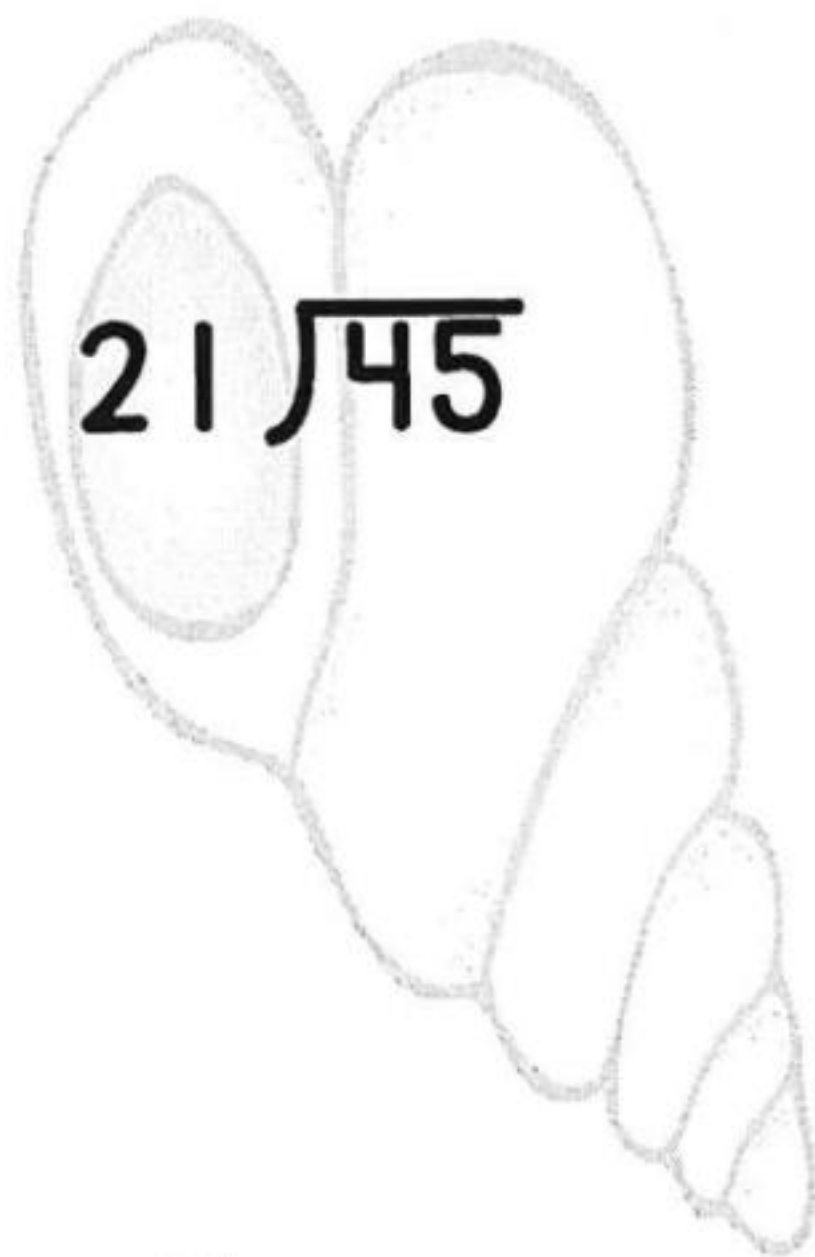
A. 4.5

B. 45

C. 450

D. 0.45

5.NBT.7

Summer Math - Long Division
WEEK 8

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

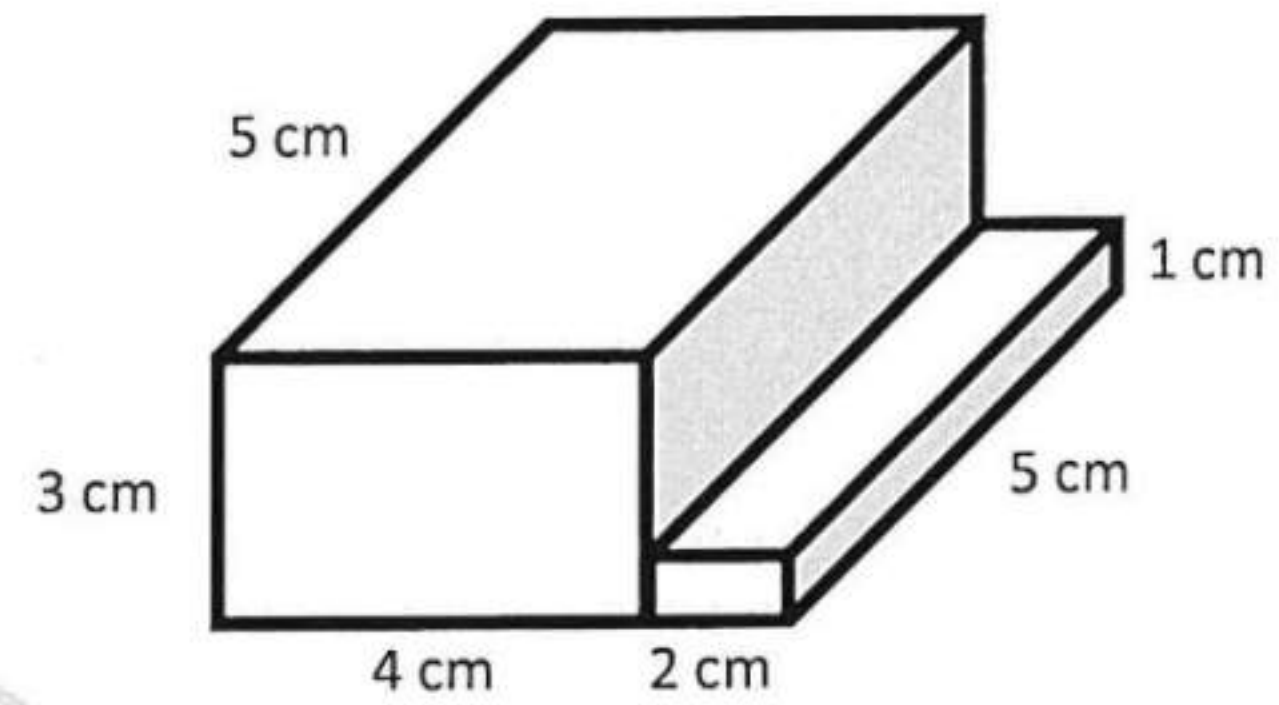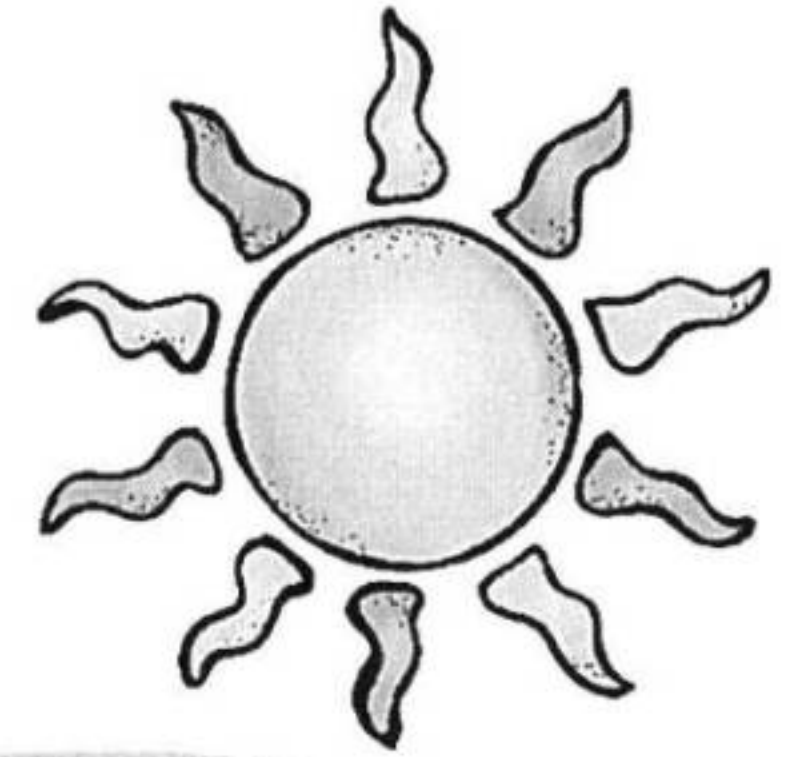Write the number you completed correctly in the sun.

$9\overline{)1266}$

$5\overline{)544}$

$7\overline{)1783}$

$6\overline{)2335}$

$4\overline{)2903}$

$8\overline{)7503}$

45. Sheila has 20 contacts in her phone and then adds 5 more. Write an expression to match the words.

A. 20 + 5

B. 20 − 5

C. 20 + 5 = 25

D. 20 − 5 = 15

5.OA.2

46. Tony is making waffle batter that needs 2 cups of flour. If he uses a 1/3 cup measuring cup, how many times will he have to fill it to have 2 cups total?

A. 2

B. 3

C. 6

D. 12

5.NF.7b

47. Jose bought 3 books that cost $21, $10, and $17. He wrote the equation as:

(21 + 10) + 17 = 21 + (10 + 17)

Which property did he use?

A. Associative Property of Addition
B. Identity Property of Addition
C. Distributive Property
D. Commutative Property of Addition

5.NBT.6

48. Helen measured how much her tomato plants grew over a week. The information for 10 tomato plants is displayed in the dot plot below.

Tomato plant growth
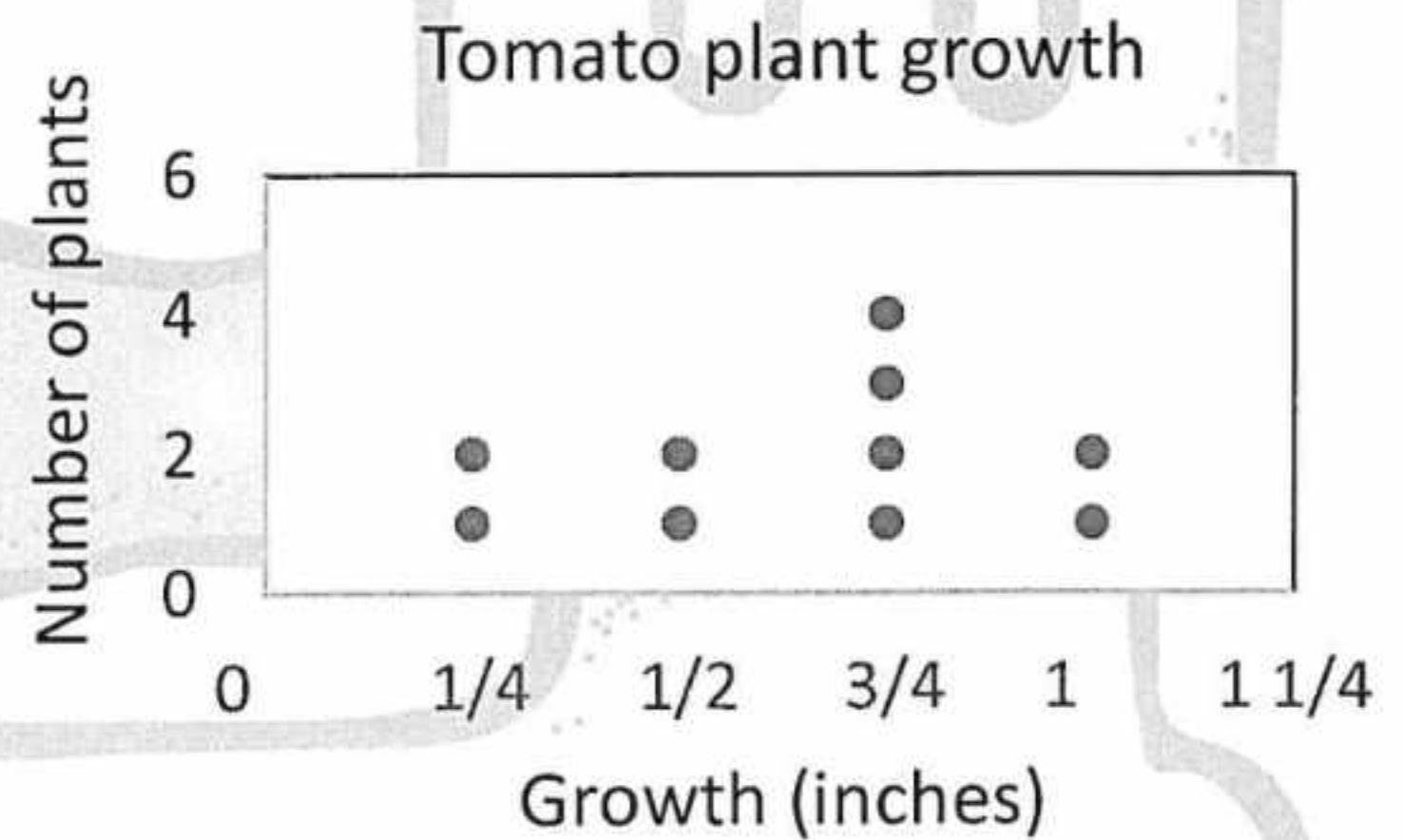
How many total inches did these 10 tomato plants grow?

A. 6 ¼

B. 6 ½

C. 6

D. 5 ½

5.MD.2

49. The eraser has a diameter of 0.042 meters. What is 0.042 in word form?

A. Forty-two

B. Forty-two tenths
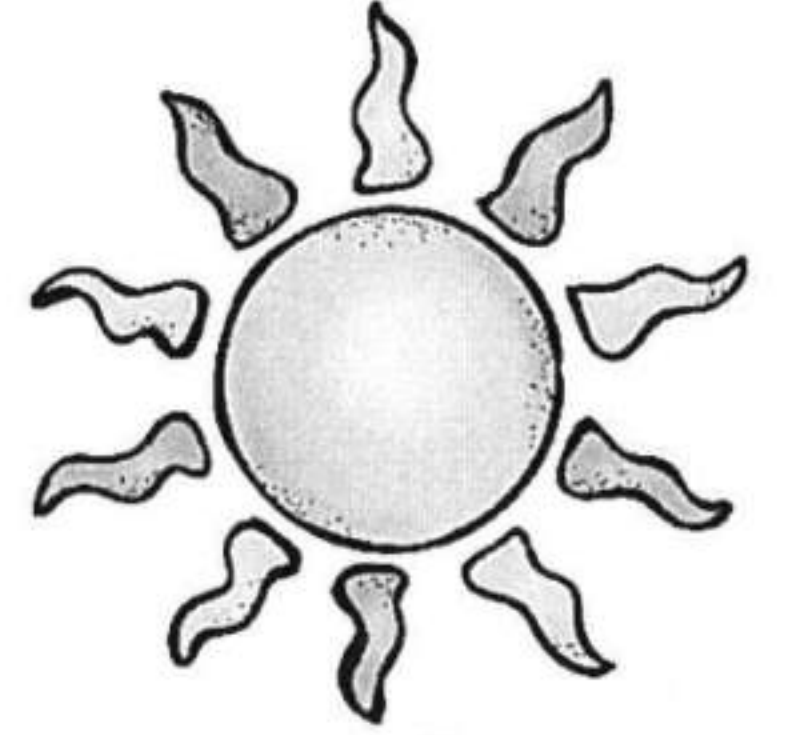
C. Forty-two hundredths

D. Forty-two thousandths

5.NBT.3a

Summer Math - Fractions
WEEK 9

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

$\frac{1}{4} + \frac{1}{2} =$

$\frac{3}{5} + \frac{1}{10} =$

$\frac{1}{3} + \frac{1}{9} =$

$1\frac{1}{10} + 1\frac{3}{20} =$

$2\frac{1}{3} + 4\frac{1}{6} =$

$5\frac{1}{14} + 2\frac{3}{7} =$

$\frac{5}{6} - \frac{1}{3} =$

$\frac{5}{12} - \frac{1}{6} =$

$\frac{7}{24} - \frac{1}{8} =$

$5\frac{3}{4} - 3\frac{1}{2} =$

$6\frac{1}{3} - 1\frac{1}{6} =$
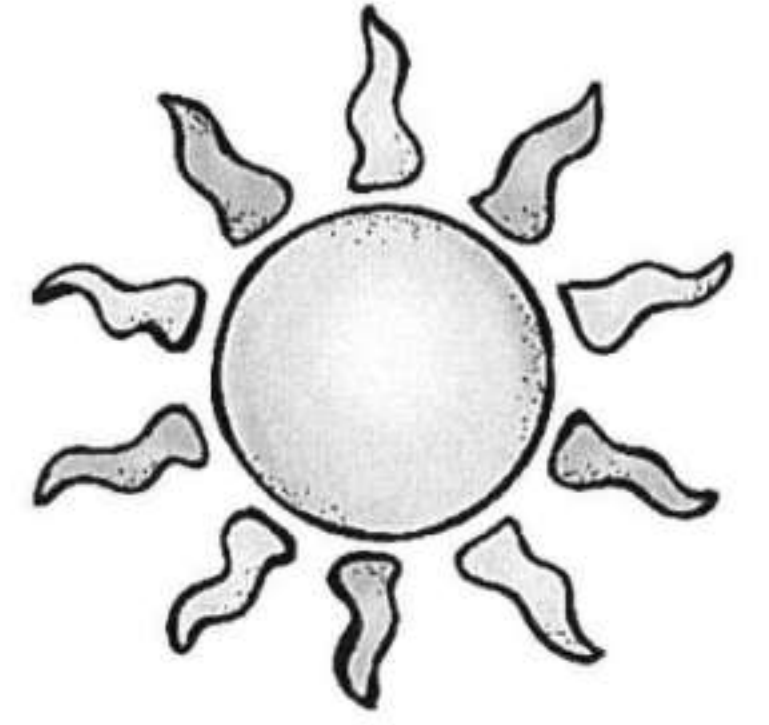
$4\frac{4}{15} - 2\frac{1}{5} =$

Summer Math - Fractions
WEEK 10

See how many questions you can answer correctly in 5 minutes. Use a timer to help keep time.

Write the number you completed correctly in the sun.

$\dfrac{2}{3} \times \dfrac{6}{3} =$

$\dfrac{5}{4} \times \dfrac{4}{10} =$

$\dfrac{9}{10} \times \dfrac{5}{3} =$

$\dfrac{8}{9} \times \dfrac{3}{16} =$

$\dfrac{4}{15} \times \dfrac{5}{8} =$

$\dfrac{6}{2} \times \dfrac{6}{18} =$

$\dfrac{2}{6} \div \dfrac{4}{3} =$

$\dfrac{5}{8} \div \dfrac{10}{4} =$

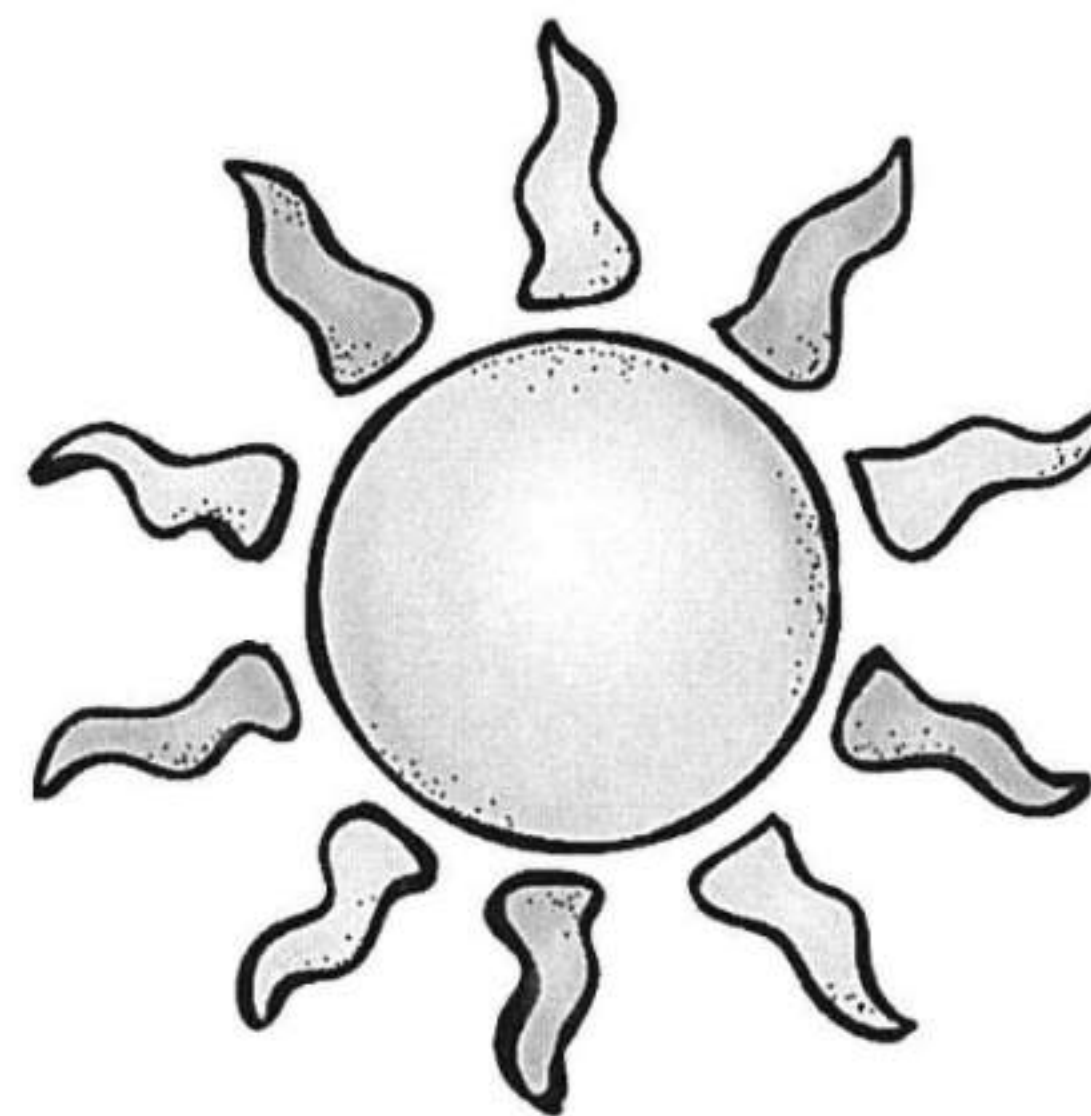$\dfrac{5}{4} \div \dfrac{10}{16} =$

50. $\dfrac{3}{5} - \dfrac{1}{10} =$

A. $\dfrac{1}{5}$

B. $\dfrac{7}{10}$

C. $\dfrac{1}{2}$

D. $\dfrac{3}{5}$

5.NBT.3a

51. Nicole has ½ quart of soda to pour equally into 8 glasses. Which equation represents the fraction of a quart of soda, q, that is in each glass?

A. ½ ÷ 8 = q

B. 8 ÷ ½ = q

C. ½ x 8 = q

D. 8 + ½ = q

5.NF.2

52. 12 yards = _____ feet

A. 4

B. 36

C. 8

D. 18

5.MD.1

Congratulations!
You have finished the
Summer Math Packet.
Enjoy the rest of
the summer