



SUMMER MATH

for 6th Grade



Dear future 6th graders,

Happy Summer! We are so proud of your hard work in 5th grade this year! In order to stay sharp with your math skills for middle school, you need to spend some time each week practicing math facts and reviewing math concepts.

Don't wait until the last week of summer to start this work!

Scoring: 10 points accuracy (are the problems correct) and 5 points on completeness (did you show your work and did you do all the fact fluency problems).

Here are the two goals for your summer homework:

I. 5th Grade Concept Review

- Review the 5th grade math concepts
- Problem solve any questions you aren't sure about: draw a picture, write down what you know, research similar problems online, ask an older friend or sibling!

Multiple Choice

- Bubble in the correct answer on your bubble sheet
- Work can be shown on the packet

Short Answer

- All work must be shown on the packet (no work no credit) Please circle your answer.
- Write answers on the answer sheet

2. Fact fluency

- Practice your multiplication, division facts, operations with decimals, fractions, and more. Show work!
- Complete the fluency each week

Be ready to turn in this booklet completed on the first week of school!

Love, Your 5th Grade Teachers!

SUMMER HW PACING GUIDE

Week 1:

- ☐ Multiple Choice Questions I-10
- ☐ Short Answer A-G
- ☐ Multiplication Fluency

Week 2:

- ☐ Multiple Choice Questions 11-20
- ☐ Short Answer H-Q
- ☐ Division Fluency

Week 3:

- ☐ Multiple Choice Questions: 21-31
- ☐ Short Answer R-W
- ☐ Operations Fluency

Week 4:

- ☐ Multiple Choice Questions: 32-41
- ☐ Short Answer X-EE
- ☐ Operations Fluency

Week 5:

- ☐ Multiple Choice Questions: 42-47
- ☐ Short Answer FF-II
- ☐ Operations Fluency

Week 6:

- ☐ Multiple Choice Questions: 48-53
- ☐ Short Answer JJ-MM
- ☐ Operations Fluency

Week 7:

- ☐ Multiple Choice Questions: 54-59
- ☐ Short Answer NN-PP
- ☐ Measurement Fluency

Short Answer Key: (Write your answer below) *All work must be shown on the summer packet for full credit.

A. _____

B. _____

C. _____

D. _____

E. _____

F. _____

G. _____

H. _____

I. _____

J. _____

K. _____

L. _____

M. _____

N. _____

O. _____

P. _____

Q. _____

R. _____

S. _____

T. _____

U. _____

V. _____

W. _____

X. _____

Y. _____

Z. _____

AA. _____

BB. _____

CC. _____

DD. _____

EE. _____

FF. _____

GG. _____

HH. _____

II. _____

JJ. _____

KK. _____

LL. _____

MM. _____

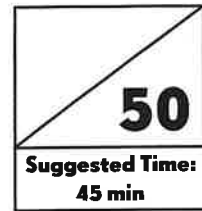
NN. _____

OO. _____

PP. _____

Benchmark Assessment 1

for Chapters 1 to 4



Multiple Choice

Fill in the circle next to the correct answer.

1. Find the product of 1,398 and 8.
(A) 1,390 (B) 1,406 (C) $174\frac{3}{4}$ (D) 11,184
2. Find the sum of the value of 8 in 387,562 and the value of 7 in 7,328,562.
(A) 1,500 (B) 7,800 (C) 7,800,000 (D) 7,080,000
3. Find the value of $\{56 + [9 - (\frac{18}{6})]\} \times 2$.
(A) 53 (B) 59 (C) 62 (D) 124
4. A supermarket has 64 cartons of 40 peaches each. The peaches are packed into bags of 8 each. How many bags of peaches are there?
(A) 105 (B) 140 (C) 320 (D) 336
5. A van cost \$12,655. Mr. Smith paid a deposit of \$6,655 and he will pay the rest in 12 equal payments. How much does he have to pay for each payment?
(A) \$500 (B) \$2,000 (C) \$5,000 (D) \$6,000

Name: _____

Date: _____

6. Adam's father is 3 times as old as Adam. Two years ago, Adam was 15 years old. How old will his father be in 5 years?
- (A) 44 years (B) 50 years (C) 51 years (D) 56 years
7. What is the value of $9 \div \frac{1}{3}$?
- (A) 27 (B) $8\frac{2}{3}$ (C) $9\frac{1}{3}$ (D) 3
8. Claire has $\frac{3}{2}$ gallons of water. She pours the water equally into 6 glasses. How much water is in each glass?
- (A) $\frac{1}{4}$ gal (B) $1\frac{1}{12}$ gal (C) $7\frac{1}{2}$ gal (D) 9 gal
9. Write the product of $\frac{7}{20}$ and 3 as a decimal.
- (A) 0.86 (B) 0.95 (C) 1.05 (D) 2.1
10. Alice has \$560 in the bank. She uses $\frac{1}{4}$ of it to buy a coat and $\frac{2}{3}$ of the remaining money to buy a present for her mother. How much money does Alice have left?
- (A) \$70 (B) \$140 (C) \$208 (D) \$420

Short Answer**Write your answer in the space given.**

- A. Find the value of the digit 7 in 6,734,254. _____
- B. Use these digits to make the least 6-digit even number.
6, 1, 4, 7, 2, 8

- C. A gift shop owner wants to buy 657 mugs. The mugs are sold for a price of 3 for \$4. How much must the owner pay for all the mugs?
- D. There are 15 groups of people at a function. Each group has 32 people in it. The people are then regrouped into 16 equal groups. How many people are in each group now?

Name: _____

Date: _____

E. Find the value of $3\frac{2}{5} + 9\frac{4}{15}$.

F. Express the value of $\frac{6}{25} \times \frac{3}{4}$ as a decimal.

G. Belinda has a bag of beads. She uses $\frac{1}{3}$ of the beads to make a bracelet and $\frac{3}{5}$ of the beads to make a necklace. She uses 36 more beads to make the necklace. How many beads does Belinda use to make the bracelet?

Mad Minutes - 5th Grade - Week ²
Division Facts 2's to 12's



Name: _____

Date: _____

MONDAY

$$10 \overline{) 40} \quad 9 \overline{) 81} \quad 8 \overline{) 72} \quad 12 \overline{) 36} \quad 8 \overline{) 80} \quad 8 \overline{) 96} \quad 4 \overline{) 28} \quad 7 \overline{) 28} \quad 3 \overline{) 18} \quad 5 \overline{) 15}$$

$$4 \overline{) 20} \quad 4 \overline{) 32} \quad 11 \overline{) 55} \quad 9 \overline{) 27} \quad 9 \overline{) 108} \quad 9 \overline{) 54} \quad 10 \overline{) 20} \quad 7 \overline{) 49} \quad 2 \overline{) 24} \quad 9 \overline{) 72}$$

$$6 \overline{) 18} \quad 10 \overline{) 80} \quad 9 \overline{) 63} \quad 6 \overline{) 36} \quad 10 \overline{) 70} \quad 11 \overline{) 88} \quad 12 \overline{) 48} \quad 2 \overline{) 8} \quad 10 \overline{) 50} \quad 3 \overline{) 33}$$

TUESDAY

$$5 \overline{) 45} \quad 3 \overline{) 12} \quad 3 \overline{) 9} \quad 12 \overline{) 24} \quad 4 \overline{) 12} \quad 9 \overline{) 81} \quad 9 \overline{) 27} \quad 7 \overline{) 49} \quad 11 \overline{) 66} \quad 11 \overline{) 44}$$

$$5 \overline{) 25} \quad 6 \overline{) 54} \quad 4 \overline{) 44} \quad 7 \overline{) 77} \quad 4 \overline{) 20} \quad 6 \overline{) 30} \quad 7 \overline{) 70} \quad 5 \overline{) 50} \quad 3 \overline{) 21} \quad 5 \overline{) 30}$$

$$6 \overline{) 66} \quad 8 \overline{) 24} \quad 10 \overline{) 70} \quad 11 \overline{) 22} \quad 7 \overline{) 42} \quad 5 \overline{) 20} \quad 12 \overline{) 72} \quad 2 \overline{) 16} \quad 9 \overline{) 63} \quad 2 \overline{) 10}$$

WEDNESDAY

$$3 \overline{) 12} \quad 4 \overline{) 28} \quad 10 \overline{) 120} \quad 8 \overline{) 88} \quad 11 \overline{) 88} \quad 11 \overline{) 99} \quad 7 \overline{) 49} \quad 9 \overline{) 99} \quad 5 \overline{) 30} \quad 5 \overline{) 55}$$

$$11 \overline{) 77} \quad 12 \overline{) 60} \quad 5 \overline{) 45} \quad 5 \overline{) 50} \quad 3 \overline{) 15} \quad 4 \overline{) 32} \quad 10 \overline{) 20} \quad 7 \overline{) 63} \quad 10 \overline{) 70} \quad 8 \overline{) 24}$$

$$5 \overline{) 25} \quad 4 \overline{) 12} \quad 6 \overline{) 54} \quad 4 \overline{) 48} \quad 6 \overline{) 48} \quad 7 \overline{) 21} \quad 7 \overline{) 70} \quad 8 \overline{) 32} \quad 8 \overline{) 96} \quad 4 \overline{) 36}$$

THURSDAY

$$3\overline{)33} \quad 12\overline{)60} \quad 12\overline{)96} \quad 11\overline{)33} \quad 5\overline{)20} \quad 7\overline{)70} \quad 12\overline{)132} \quad 11\overline{)55} \quad 5\overline{)25} \quad 3\overline{)9}$$

$$3\overline{)12} \quad 7\overline{)49} \quad 4\overline{)28} \quad 3\overline{)24} \quad 11\overline{)77} \quad 7\overline{)35} \quad 3\overline{)18} \quad 2\overline{)14} \quad 9\overline{)99} \quad 2\overline{)18}$$

$$4\overline{)24} \quad 7\overline{)56} \quad 10\overline{)90} \quad 10\overline{)50} \quad 10\overline{)40} \quad 8\overline{)88} \quad 5\overline{)35} \quad 4\overline{)40} \quad 9\overline{)36} \quad 10\overline{)70}$$

FRIDAY

$$11\overline{)66} \quad 8\overline{)48} \quad 5\overline{)35} \quad 11\overline{)110} \quad 10\overline{)40} \quad 12\overline{)96} \quad 10\overline{)60} \quad 5\overline{)40} \quad 9\overline{)36} \quad 7\overline{)77}$$

$$11\overline{)33} \quad 4\overline{)16} \quad 10\overline{)80} \quad 4\overline{)44} \quad 4\overline{)28} \quad 8\overline{)40} \quad 9\overline{)99} \quad 2\overline{)10} \quad 5\overline{)50} \quad 3\overline{)9}$$

$$7\overline{)56} \quad 9\overline{)27} \quad 2\overline{)16} \quad 3\overline{)21} \quad 9\overline{)90} \quad 4\overline{)20} \quad 8\overline{)72} \quad 5\overline{)10} \quad 9\overline{)63} \quad 8\overline{)24}$$

$$12\overline{)36} \quad 6\overline{)18} \quad 8\overline{)88} \quad 10\overline{)50} \quad 2\overline{)8} \quad 4\overline{)40} \quad 8\overline{)80} \quad 6\overline{)48} \quad 10\overline{)110} \quad 4\overline{)48}$$

$$11\overline{)77} \quad 3\overline{)30} \quad 12\overline{)120} \quad 4\overline{)24} \quad 11\overline{)44} \quad 9\overline{)45} \quad 10\overline{)70} \quad 9\overline{)108} \quad 7\overline{)70} \quad 3\overline{)24}$$

$$6\overline{)42} \quad 6\overline{)66} \quad 9\overline{)81} \quad 3\overline{)36} \quad 3\overline{)15} \quad 10\overline{)30} \quad 7\overline{)21} \quad 6\overline{)36} \quad 9\overline{)18} \quad 7\overline{)42}$$

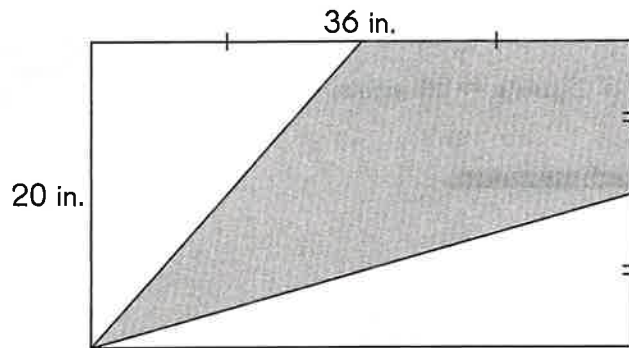
End-of-Year Test

Multiple Choice

Fill in the circle next to the correct answer.

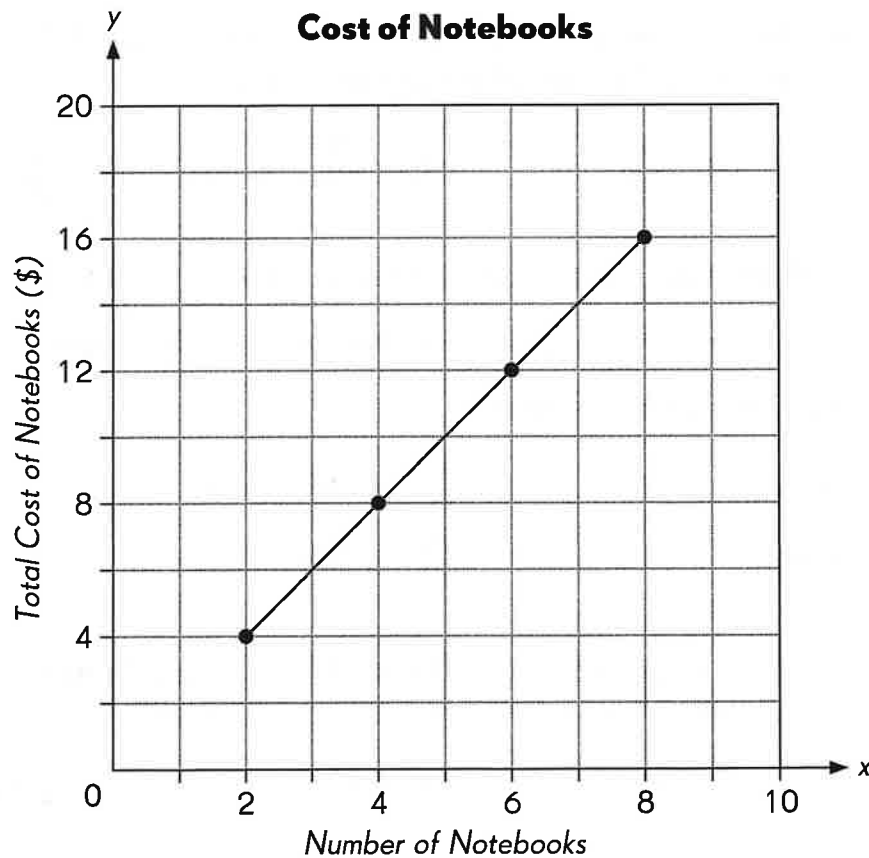
11. Find the value of $10 \times \frac{2}{15}$.
- (A) $\frac{3}{4}$ (B) $\frac{4}{3}$
(C) $10\frac{2}{15}$ (D) 75
12. Of the 250 people at a concert, 160 are men. Half of the rest of the people are children. What fraction of the people are women?
- (A) $\frac{9}{100}$ (B) $\frac{4}{25}$ (C) $\frac{9}{50}$ (D) $\frac{9}{25}$
13. In a race, a triathlete runs $\frac{1}{3}$ of the total distance, cycles $\frac{2}{5}$ of the total distance, and swims the remaining distance. He swims 1,200 meters. What is the total distance of the race?
- (A) 3,600 meters (B) 4,500 meters
(C) 6,000 meters (D) 7,200 meters
14. 5 boys made s muffins. They sold the muffins for \$3 each and shared the money they made equally. How much money did each boy get?
- (A) $\$ \frac{3s}{5}$ (B) $\$ \frac{5s}{3}$ (C) $\$ \frac{5+s}{5}$ (D) $\$ 15s$

15. Find the area of the shaded part of the figure.



- (A) 112 square inches
(B) 180 square inches
(C) 360 square inches
(D) 720 square inches

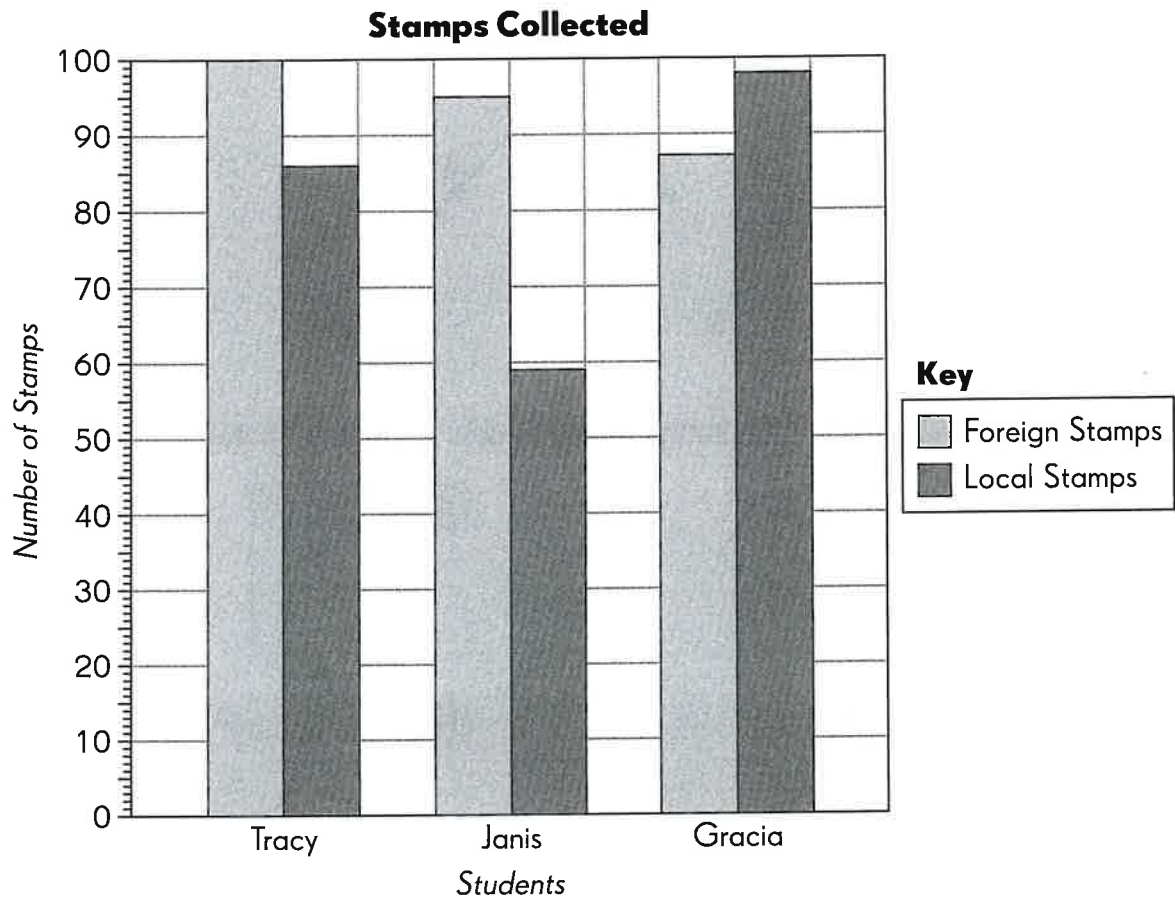
16. The line graph shows the cost of notebooks.



What is the cost of 7 notebooks?

- (A) \$5 (B) \$7 (C) \$10 (D) \$14

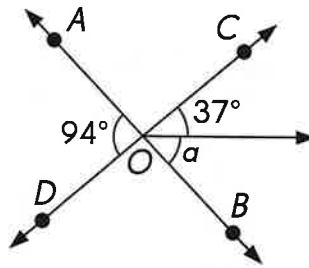
17. The graph shows the number of foreign stamps and local stamps 3 students collected.



How many more foreign stamps than local stamps are there?

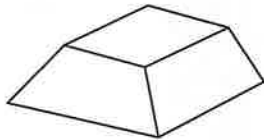
- (A) 39 (B) 243 (C) 283 (D) 525

18. $\vec{AB}$ and $\vec{CD}$ meet at O . Find the measure of $\angle a$. The figure is not drawn to scale.

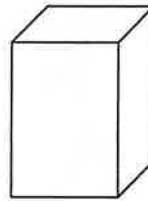


- (A) 143° (B) 131° (C) 86° (D) 57°
19. Which solid has 4 rectangular faces and 2 square faces?

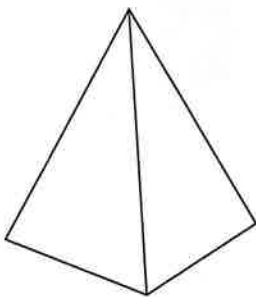
(A)



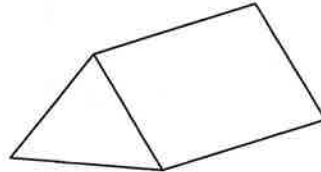
(B)



(C)



(D)



20. A tank that measures 40 feet by 36 feet by 18 feet is filled with water to $\frac{5}{6}$ of its height. $\frac{1}{3}$ of the water is poured out of the tank. How much water is left in the tank?

(A) $25,920 \text{ ft}^3$ (B) $21,600 \text{ ft}^3$ (C) $14,400 \text{ ft}^3$ (D) $7,200 \text{ ft}^3$

Name: _____

Date: _____

H. Jenny baked some biscuits. The first batch of biscuits she baked weighed $1\frac{2}{3}$ pounds and the second batch weighed $2\frac{1}{2}$ pounds. How many pounds of biscuits did she bake in all?

I. The length of a rectangle is $\frac{2}{5}$ yard. Its width is $\frac{1}{4}$ of its length. What is the perimeter of the rectangle?

J. A travel company has 132 tourists who are going on a boat ride. Each boat holds 8 passengers. How many boats does the travel company need to book?

Extended Response**Solve. Show your work.**

K. Patrick has $1\frac{1}{2}$ quarts of blue paint and $3\frac{3}{5}$ quarts of red paint. He mixes $\frac{2}{3}$ of the blue paint and $\frac{5}{6}$ of the red paint to get purple paint. How much purple paint does Patrick have?

L. Mrs. Sanchez has a bag of assorted nuts that contain almonds, pecans, and walnuts. $\frac{1}{3}$ of the nuts are almonds and $\frac{3}{4}$ of the remainder are pecans. There are 300 nuts in the bag. How many walnuts are in the bag?

Short Answer**Write your answer in the space provided.**

M. Multiply 0.687 by 10^3 .

N. Divide 6.42 by 5. Round your answer to the nearest hundredth.

O. Find $6\frac{1}{4} + 2\frac{7}{9} + 1\frac{3}{4}$.

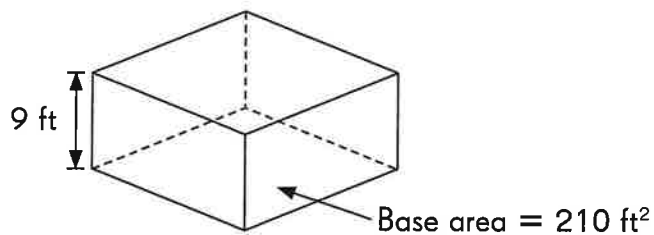
Name: _____

Date: _____

Solve. Show your work.

- P. Mr. Abdul buys 4 bags of charcoal for a barbeque party. Each bag weighs $5\frac{1}{2}$ pounds. What is the total weight of the charcoal?

- Q. Find the volume of the rectangular box.



NAME: _____

DATE: _____

Week 3 Fluency

Daily Computation Fluency Practice

$11 \times 8 =$	$10 \div 10 =$	$5 \times 7 =$	$54 \div 9 =$	$12 \times 6 =$
$1\frac{1}{3} + 1\frac{5}{8} =$	$\frac{1}{2} + \frac{3}{4} =$	$5 \times \frac{3}{5} =$	$\frac{1}{3} \div 6 =$	$3 \div \frac{1}{9} =$
$4.4 \times 10^3 =$	$47 \times 52 =$	$753 \div 84 =$	$16.4 + 2.13 =$	$5.8 \times 0.6 =$

THURSDAY

Daily Computation Fluency Practice

$21 \div 7 =$	$2 \times 9 =$	$60 \div 6 =$	$10 \times 1 =$	$108 \div 12 =$
$4\frac{3}{4} - 1\frac{1}{2} =$	$\frac{7}{8} - \frac{1}{4} =$	$\frac{3}{4} \times \frac{1}{8} =$	$\frac{1}{2} \div 3 =$	$3 \div \frac{1}{5} =$
$63.2 \div 10^2 =$	$39 \times 2,752 =$	$5,476 \div 6 =$	$87.64 - 79.23 =$	$9.9 \div 0.9 =$

NAME: _____

DATE: _____

Week 3 Fluency

Daily Computation Fluency Practice

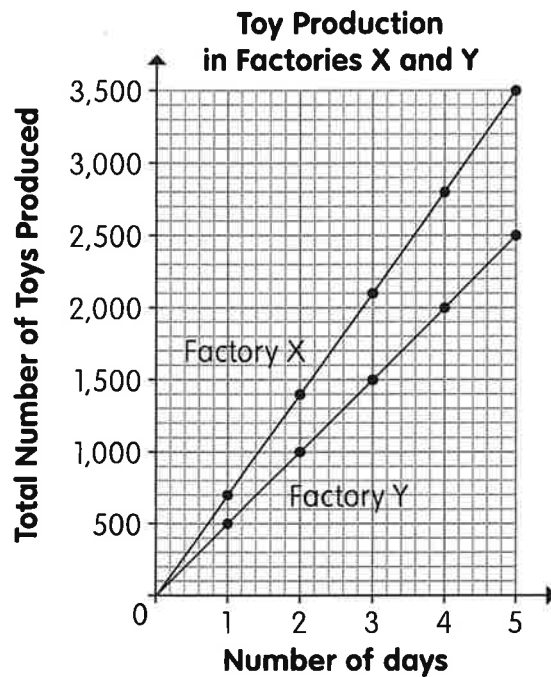
$4 \times 9 =$	$70 \div 10 =$	$12 \times 5 =$	$18 \div 3 =$	$11 \times 5 =$
$2\frac{1}{3} + 1\frac{1}{4} =$	$\frac{3}{4} + \frac{3}{5} =$	$5 \times \frac{2}{7} =$	$\frac{1}{6} \div 4 =$	$6 \div \frac{1}{4} =$
$7.1 \times 10^3 =$	$2,185 \times 36 =$	$698 \div 37 =$	$1.62 + 4.35 =$	$2.5 \times 1.6 =$

THURSDAY

Daily Computation Fluency Practice

$10 \times 8 =$	$32 \div 4 =$	$4 \times 7 =$	$10 \div 2 =$	$12 \times 6 =$
$3 - 2\frac{1}{3} =$	$\frac{3}{5} - \frac{1}{3} =$	$\frac{1}{9} \times \frac{3}{5} =$	$\frac{1}{7} \div 3 =$	$5 \div \frac{1}{2} =$
$4.4 \div 10^2 =$	$32 \times 74 =$	$7,368 \div 9 =$	$67.43 - 52.89 =$	$2.4 \div 0.3 =$

21. This question has two parts.



Part A

How many toys were produced by Factory X in 2 days?

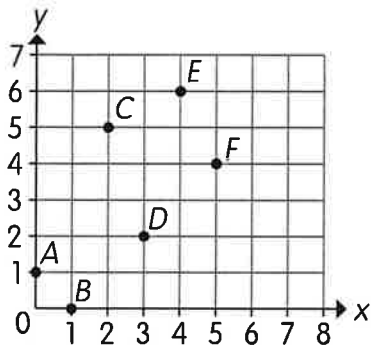
- ☐ A 500
- ☐ B 700
- ☐ C 1,000
- ☐ D 1,400

Part B

How many days did it take Factory Y to produce 2,000 toys?

- ☐ A 1
- ☐ B 2
- ☐ C 3
- ☐ D 4

22. This question has three parts.



Part A

What are the coordinates of C?

- ☐ A (2, 3)
- ☐ B (3, 2)
- ☐ C (2, 5)
- ☐ D (5, 4)

Part B

What are the coordinates of E?

- ☐ A (2, 5)
- ☐ B (4, 6)
- ☐ C (5, 2)
- ☐ D (6, 4)

Part C on next page.

Part C

The point G is 7 units to the right of the y -axis and 1 unit above the x -axis.
Which statements correctly describe the position of point G ?

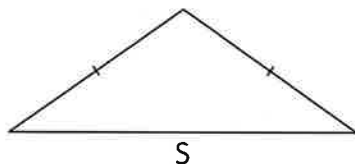
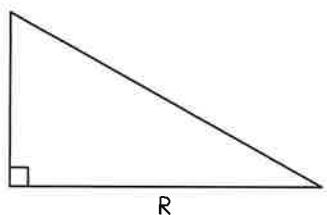
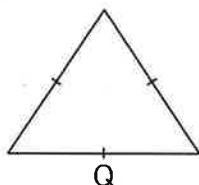
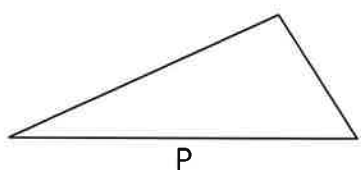
Choose the **two** correct answers.

- ☐ A The coordinates of point G are $(7, 1)$.
- ☐ B The coordinates of point G are $(1, 7)$.
- ☐ C Point G is 6 units to the right of A .
- ☐ D Point G is 3 units below F .
- ☐ E Points C , F , and G form an obtuse triangle.

13. Which statement about shapes is true?

- ☐ A All squares are rectangles. Rectangles have opposite sides that are of equal in length.
Therefore, all squares are rectangles.
- ☐ B Only some squares are rectangles. Rectangles have opposite sides that are not equal in length.
Therefore, only squares with opposite sides that are not equal are rectangles.
- ☐ C Only some parallelograms are quadrilaterals. Quadrilaterals have four sides.
Therefore, only parallelograms with four sides are quadrilaterals.
- ☐ D All rhombuses are parallelograms. Parallelograms have only 1 pair of parallel sides.
Therefore, all rhombuses are parallelograms.

24. Which of the following is an equilateral triangle?



- (A) P
- (B) Q
- (C) R
- (D) S

25. Look at the patterns below.

Pattern X: 0, 8, 16, 24, 32, 40, 48

Pattern Y: 0, 4, 8, 12, 16, 20, 24

Which statement about Pattern X and Pattern Y is always true?

- (A) Each term in Pattern X is 2 times the corresponding term in Pattern Y.
- (B) Each term in Pattern X is half of the corresponding term in Pattern Y.
- (C) Each term in Pattern Y is 4 less than the corresponding term in Pattern X.
- (D) Each term in Pattern Y is 8 less than the corresponding term in Pattern X.

26. The heights of a figurine and a mug are 7.5 inches and 3.3 inches respectively when rounded to the nearest tenth of an inch. The actual heights of the figurine and the mug are recorded to 2 decimal places. What is the greatest possible difference between the actual heights of the figurine and the mug?
- (A) 4.2 inches
 - (B) 4.24 inches
 - (C) 4.29 inches
 - (D) 4.3 inches
27. A rectangular prism measures 4 feet by 2 feet by 9 feet. What is its volume?
- (A) 8 cubic feet
 - (B) 18 cubic feet
 - (C) 36 cubic feet
 - (D) 72 cubic feet
28. In which number does the digit 8 have a value that is 200 times greater than the digit 4 in the number 31.974?
- (A) 5.38
 - (B) 5.87
 - (C) 18.92
 - (D) 80.37

29. What is the value of $5\frac{3}{8}$ multiplied by 6?

- (A) $7\frac{1}{4}$
- (B) $11\frac{3}{8}$
- (C) $30\frac{3}{8}$
- (D) $32\frac{1}{4}$

30. There are 200 people in a movie theater. 180 of them are 16 years old and above. What percent of the people in the movie theater are below 16 years old?

- (A) 10%
- (B) 16%
- (C) 50%
- (D) 90%

31. Which of the following is equal to 1.025?
Choose the two correct answers.

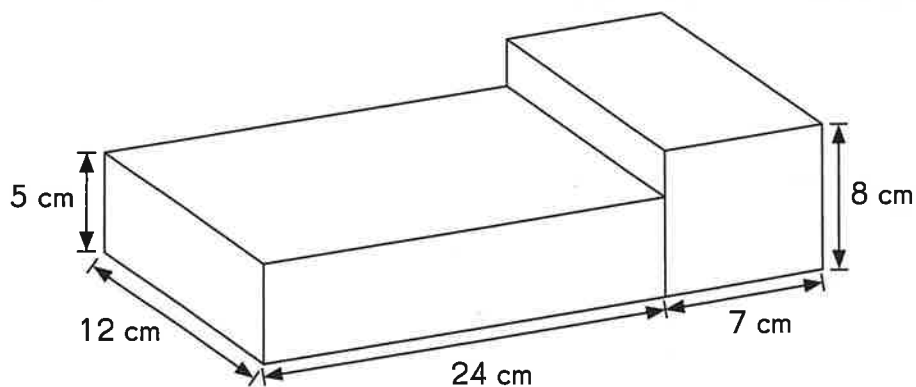
- (A) $1\frac{25}{100}$
- (B) $1 + (25 \times \frac{1}{10})$
- (C) $1 + \frac{1}{40}$
- (D) $(10 \times 0.1) + (2.5 \div 100)$
- (E) one and twenty-five hundredths

Solve. Use models to help you.

- R.** Zack has two strings of equal length. One string is red and the other is yellow. After cutting 2.5 meters of the red string and 3.8 meters of the yellow string, the length of the red string is 1.5 times that of the yellow string. Find the original length of the yellow string.

Solve. Show your work.

- S.** Andy fixed two metal blocks together. Find the volume of the metal blocks.

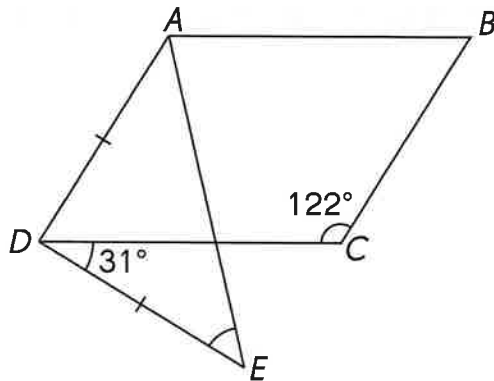


Name: _____

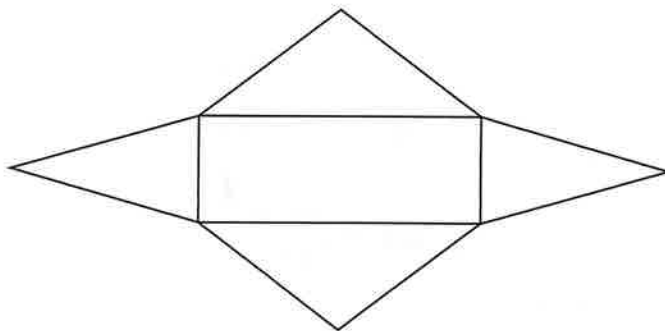
Date: _____

Solve. Show your work.

T. In the figure, $ABCD$ is a parallelogram. Find the measure of $\angle DEA$.



U. Name the shape that the net will form.

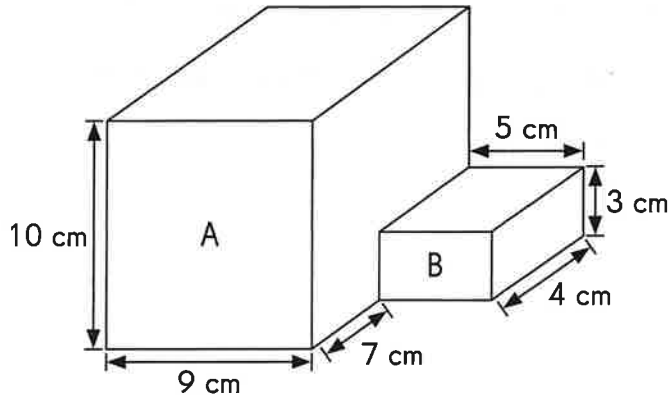


Extended Response**Solve. Show your work.**

- V. Maria made $7\frac{2}{3}$ pints of pineapple juice. She drank $\frac{5}{6}$ pint of the juice and poured $\frac{3}{4}$ of the remaining juice equally into 3 bottles. How much pineapple juice does each bottle contain?

Solve. Show your work.**W.**

The solid is made up of 2 rectangular prisms, A and B. Solid A is painted red. Find the total surface area of solid A that is painted red.



NAME: _____

DATE: _____

*Week 4 Fluency***Daily Computation Fluency Practice**

$4 \div 4 =$	$2 \times 5 =$	$22 \div 11 =$	$12 \times 2 =$	$7 \div 7 =$
$1\frac{3}{4} + 1\frac{2}{5} =$	$\frac{1}{6} + \frac{3}{8} =$	$2 \times \frac{3}{4} =$	$\frac{1}{2} \div 4 =$	$2 \div \frac{1}{5} =$
$6.53 \times 10^4 =$	$67 \times 9,023 =$	$56 \div 33 =$	$2.17 + 7.13 =$	$1.1 \times 8.2 =$

TUESDAY**Daily Computation Fluency Practice**

$11 \times 12 =$	$81 \div 9 =$	$5 \times 2 =$	$44 \div 11 =$	$11 \times 9 =$
$3\frac{1}{4} - 2\frac{1}{3} =$	$\frac{3}{4} - \frac{1}{3} =$	$\frac{3}{8} \times \frac{1}{2} =$	$\frac{1}{6} \div 4 =$	$5 \div \frac{1}{4} =$
$701 \div 10^3 =$	$1,789 \times 4 =$	$5,931 \div 1 =$	$7.43 - 2.89 =$	$8.8 \div 2.2 =$

NAME: _____

DATE: _____

Week 4 Fluency

Daily Computation Fluency Practice

$11 \div 11 =$	$2 \times 6 =$	$72 \div 12 =$	$5 \times 8 =$	$72 \div 6 =$
$2\frac{1}{5} + 1\frac{1}{10} =$	$\frac{3}{4} + \frac{5}{8} =$	$5 \times \frac{2}{5} =$	$\frac{1}{2} \div 5 =$	$6 \div \frac{1}{9} =$
$0.45 \times 10^2 =$	$2,583 \times 27 =$	$574 \div 62 =$	$9.9 + 10.2 =$	$6.5 \times 0.8 =$

THURSDAY

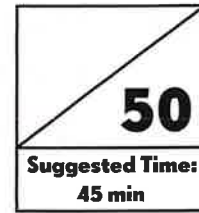
Daily Computation Fluency Practice

$9 \times 10 =$	$12 \div 4 =$	$11 \times 11 =$	$72 \div 9 =$	$10 \times 3 =$
$4\frac{1}{3} - 2\frac{1}{4} =$	$\frac{5}{6} - \frac{1}{3} =$	$\frac{2}{5} \times \frac{1}{3} =$	$\frac{1}{2} \div 4 =$	$3 \div \frac{1}{5} =$
$0.76 \div 10^1 =$	$71 \times 2,456 =$	$8,093 \div 6 =$	$7.43 - 5.89 =$	$6.5 \div 0.5 =$

32. Mrs. Smith uses 18.6 kilograms of flour to make 60 buns. How much flour does she use to make 12 buns?
- (A) 3.72 kg (B) 4.65 kg (C) 5.4 kg (D) 13.95 kg
33. Express $\frac{1}{2}\%$ as a decimal.
- (A) 0.12 (B) 0.5 (C) 0.05 (D) 0.005
34. Express $\frac{228}{400}$ as a percent.
- (A) 0.57% (B) 2.28% (C) 57% (D) 91.2%
35. Of the 200 marbles Jenny has collected, 15% are white, 68% are multicolored, and the rest are black. How many black marbles does Jenny have?
- (A) 136 (B) 64 (C) 30 (D) 34
36. The regular price of a dining table was \$1,050. At a sale, Mrs. Carter bought the dining table at a discount of 30%. How much did she pay for the dining table?
- (A) \$1,000 (B) \$735 (C) \$525 (D) \$315

Benchmark Assessment 2

for Chapters 8 to 10



Multiple Choice

(10 × 2 points = 20 points)

Fill in the circle next to the correct answer.

37. Round 8.693 to the nearest tenth.

- (A) 8.6 (B) 8.7 (C) 8.69 (D) 9.0

38. Which of these is greater than 10.5 but less than 20.1?

- (A) 0.105 (B) 10.48 (C) 12.865 (D) 20.16

39. Express 3.16 as a mixed number in simplest form.

- (A) $3\frac{1}{6}$ (B) $3\frac{4}{25}$ (C) $3\frac{2}{125}$ (D) $\frac{316}{1000}$

40. Find the value of $916 \div 800$.

- (A) 114.5 (B) 11.45 (C) 1.145 (D) 0.114

41. Find the number that belongs in the box.

× 300 = 750

- (A) 2.5 (B) 4.5 (C) 225 (D) 250

Short Answer**Write your answer in the space provided.**

X. Write 3 tens and 25 thousandths as a decimal.

Y. Express $\frac{9,675}{1,000}$ as a decimal. Round the decimal to the nearest whole number.

Z. Express 7.065 as a mixed number in simplest form.

AA. $900 \times 3.168 =$ _____

BB. $6.24 \div 10 =$ _____ $\div 1,000$

Name: _____

Date: _____

Solve. Show your work.

C.C. Doris bought 4.75 kilograms of chicken drumsticks. There are 36 drumsticks in all. Estimate the weight of each chicken drumstick.

D.D. Of the 30 days in April, students are in school 18 days. What percent of the days in April are students not in school?

E.E. Find the difference between 15% of \$360 and 18% of \$720.

NAME: _____

DATE: _____

1 *Week 5 Fluency***Daily Computation Fluency Practice**

$36 \div 9 =$	$5 \times 11 =$	$14 \div 7 =$	$2 \times 8 =$	$120 \div 10 =$
$1\frac{3}{5} + 1\frac{1}{2} =$	$\frac{3}{4} + \frac{1}{3} =$	$3 \times \frac{3}{4} =$	$\frac{1}{4} \div 5 =$	$6 \div \frac{1}{4} =$
$5.5 \times 10^2 =$	$73 \times 49 =$	$467 \div 59 =$	$12.52 + 3.7 =$	$0.2 \times 9.9 =$

THURSDAY**Daily Computation Fluency Practice**

$9 \times 11 =$	$45 \div 9 =$	$11 \times 7 =$	$55 \div 11 =$	$5 \times 9 =$
$2\frac{7}{8} - 1\frac{1}{3} =$	$\frac{5}{8} - \frac{1}{2} =$	$\frac{4}{5} \times \frac{1}{2} =$	$\frac{1}{2} \div 3 =$	$8 \div \frac{1}{6} =$
$4.2 \div 10^2 =$	$496 \times 1,381 =$	$9,458 \div 37 =$	$8.56 - 4.89 =$	$1.2 \div 0.2 =$

NAME: _____

DATE: _____

Week 5 Fluency

Daily Computation Fluency Practice

$66 \div 11 =$	$12 \times 3 =$	$66 \div 6 =$	$2 \times 7 =$	$11 \div 11 =$
$2\frac{3}{5} + 2\frac{3}{4} =$	$\frac{4}{5} + \frac{1}{2} =$	$4 \times \frac{2}{3} =$	$\frac{1}{2} \div 4 =$	$3 \div \frac{1}{5} =$
$0.32 \times 10^4 =$	$82 \times 1,476 =$	$98 \div 12 =$	$4.3 + 8.17 =$	$3.3 \times 2.1 =$

TUESDAY

Daily Computation Fluency Practice

$5 \times 4 =$	$96 \div 12 =$	$12 \times 1 =$	$6 \div 3 =$	$11 \times 10 =$
$3\frac{4}{5} - 1\frac{1}{3} =$	$\frac{3}{4} - \frac{2}{5} =$	$\frac{7}{8} \times \frac{1}{2} =$	$\frac{1}{7} \div 4 =$	$5 \div \frac{1}{3} =$
$9.3 \div 10^3 =$	$45 \times 698 =$	$7,643 \div 42 =$	$92.58 - 71.13 =$	$3.6 \div 0.3 =$

42. What is the missing number?

$$6\frac{2}{5}, 5\frac{1}{15}, 3\frac{11}{15}, \text{—————}, 1\frac{1}{15}$$

(A) 2

(B) $2\frac{1}{15}$

(C) $2\frac{1}{3}$

(D) $2\frac{2}{5}$

43. What is the value of $\frac{15}{7} \times \frac{5}{6}$?

(A) $2\frac{4}{7}$

(B) $1\frac{11}{14}$

(C) $\frac{10}{21}$

(D) $\frac{8}{9}$

44. Which number or fraction can you multiply by $3\frac{1}{4}$ to get a product greater than $3\frac{1}{4}$?

Choose the **two** possible answers.

(A) 1

(B) 2

(C) $\frac{1}{2}$

(D) $\frac{1}{4}$

(E) $1\frac{1}{4}$

45. What is the value of $2\frac{1}{2} \times 4$?

Draw models to help you.

- (A) $6\frac{1}{2}$
- (B) 8
- (C) $8\frac{1}{2}$
- (D) 10

46. What is 5.344 as a mixed number in simplest form?

- (A) $5\frac{2}{5}$
- (B) $5\frac{17}{25}$
- (C) $5\frac{34}{125}$
- (D) $5\frac{43}{125}$

47. Which expression is equal to 2.108?

- (A) $2 + \frac{7}{125}$
- (B) $2 + \frac{20}{250} + \frac{7}{125}$
- (C) $2 + \frac{10}{100} + \frac{7}{125}$
- (D) $2 + \frac{20}{200} + \frac{1}{125}$

Solve. Show your work.

FF.

Leon used 2.1 liters of green paint to paint 42% of his room. He painted the remaining part of his room using brown paint. How many liters of brown paint did he use?

GG.

Andy, Jenny, and Suresh share a sum of money. Andy gets 20% and Jenny gets 10% more than Suresh. Suresh spends $\frac{3}{5}$ of his share. What percent of the total amount of money does Suresh have left?

Extended Response**Solve. Show your work.**II.

A container and a bottle had a total of 2.15 liters of oil in them. When 0.18 liter of oil was poured from the container into the bottle, the container had 4 times as much oil as the bottle. How many liters of oil were in the container at first?

II.

A rope was 9.45 meters long. It was cut into 3 pieces. The length of the first piece of rope was $\frac{1}{5}$ of the original length. The second piece of rope was 0.12 meter longer than the third piece. How long was the second piece of rope?

NAME: _____

DATE: _____

*Week 6 Fluency**Daily Computation Fluency Practice*

$40 \div 5 =$	$6 \times 12 =$	$35 \div 7 =$	$2 \times 11 =$	$120 \div 12 =$
$1\frac{1}{3} + 2\frac{1}{4} =$	$\frac{4}{5} + \frac{3}{4} =$	$5 \times \frac{3}{5} =$	$\frac{1}{5} \div 2 =$	$5 \div \frac{1}{5} =$
$0.57 \times 10^1 =$	$3,728 \times 6 =$	$325 \div 18 =$	$4.53 + 8.79 =$	$0.4 \times 7.2 =$

THURSDAY*Daily Computation Fluency Practice*

$10 \times 12 =$	$48 \div 6 =$	$7 \times 2 =$	$132 \div 11 =$	$8 \times 3 =$
$3\frac{3}{4} - 2\frac{1}{3} =$	$\frac{3}{4} - \frac{1}{2} =$	$\frac{3}{4} \times \frac{3}{4} =$	$\frac{1}{6} \div 4 =$	$4 \div \frac{1}{6} =$
$8.2 \div 10^2 =$	$2,815 \times 924 =$	$8,215 \div 59 =$	$53.9 - 38.77 =$	$9.9 \div 0.3 =$

NAME: _____

DATE: _____

*Week 6 Fluency***Daily Computation Fluency Practice**

$28 \div 7 =$	$2 \times 10 =$	$45 \div 5 =$	$9 \times 5 =$	$3 \div 1 =$
$2\frac{1}{3} + 1\frac{1}{4} =$	$\frac{3}{4} + \frac{1}{3} =$	$4 \times \frac{2}{3} =$	$\frac{1}{3} \div 3 =$	$5 \div \frac{1}{2} =$
$5.3 \times 10^2 =$	$2,567 \times 23 =$	$741 \div 3 =$	$65.8 + 46.9 =$	$4.4 \times 0.4 =$

TUESDAY**Daily Computation Fluency Practice**

$9 \times 2 =$	$54 \div 6 =$	$7 \times 1 =$	$12 \div 12 =$	$11 \times 2 =$
$4\frac{1}{2} - 3\frac{1}{4} =$	$\frac{4}{5} - \frac{1}{3} =$	$\frac{2}{5} \times \frac{3}{4} =$	$\frac{1}{3} \div 4 =$	$6 \div \frac{1}{2} =$
$738 \div 10^4 =$	$4,379 \times 38 =$	$6,321 \div 28 =$	$55.21 - 18.89 =$	$0.4 \div 0.1 =$

Name: _____ Date: _____



Assessment Guide

End-of-Year Benchmark Assessment



Section A Multiple-Choice Questions

48. What is the value of $54,000 \div 300$?

- ☐ A 18
- ☐ B 180
- ☐ C 1,800
- ☐ D 18,000

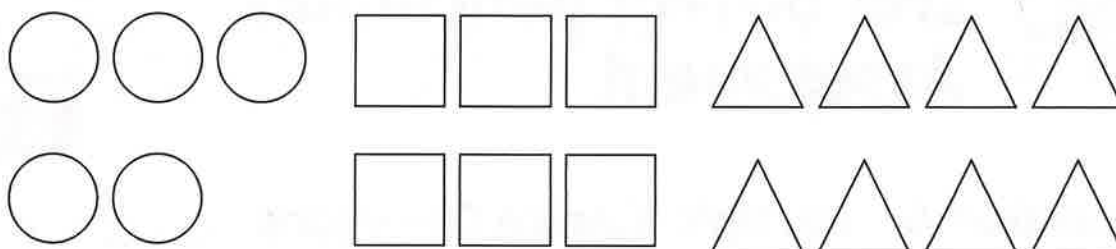
49. The ratio of pens and pencils in a classroom is 3 : 4. The number of pens is more than 40 but less than 60. What is a possible number of pencils in the classroom?

- ☐ A 44
- ☐ B 48
- ☐ C 52
- ☐ D 56

50. What is $2\frac{4}{13}$ less than 7?

- ☐ A $4\frac{4}{13}$
- ☐ B $4\frac{9}{13}$
- ☐ C $5\frac{4}{13}$
- ☐ D $5\frac{9}{13}$

51. What is the ratio of the number of circles to the number of squares to the number of triangles?



- (A) 2 : 3 : 4
 (B) 4 : 3 : 2
 (C) 6 : 5 : 8
 (D) 5 : 6 : 8
52. What are the missing numbers?

$$24 : 8 : 36 = \underline{\hspace{1cm}} : \underline{\hspace{1cm}} : 9$$

- (A) 2; 6
 (B) 3; 4
 (C) 4; 3
 (D) 6; 2
53. Which of the following equations would be correct when the number 6 is entered in the box?

- (A) $\frac{\square}{28} \div 12 = \frac{1}{56}$
 (B) $\square \frac{1}{3} \times 3 = 9$
 (C) $\frac{42}{\square} \times 5 = 30$
 (D) $\frac{3}{8} \times 14 = \square$

JJ. This question has two parts.

Two factories, Factory A and Factory B, assemble a different number of computers every 10 minutes. Factory A assembles 8 computers every 10 minutes.

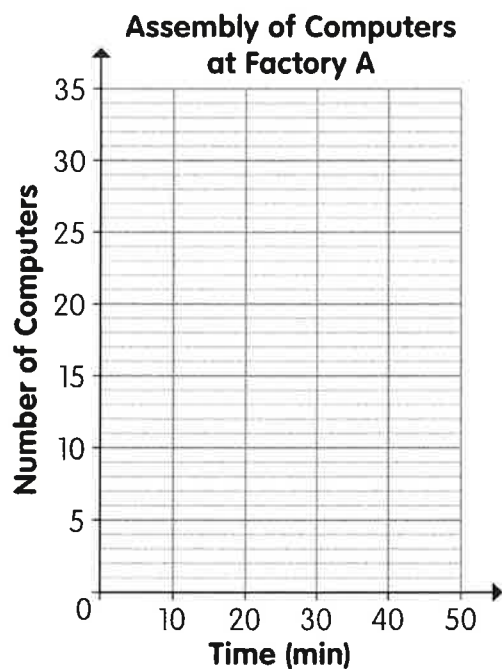
Part A

Complete the number pattern.

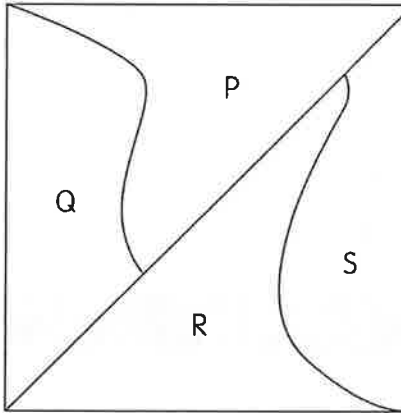
Write your answer in the tables below.

Factory A				
Time (min)	10	20	30	40
Number of computers	8			

Plot each point on a coordinate plane and make a line graph below.



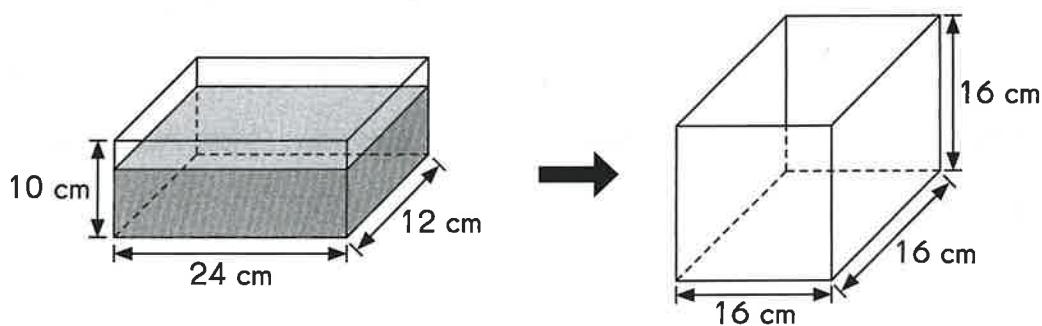
- KK. Miguel wants to design a square greeting card as shown below. The ratio of Area P to Area Q is 2 : 3. The ratio of Area R to Area S is 5 : 4. Find the ratio of Area P to Area S. Express the ratio in simplest form.



Write your answer and your work or explanation in the space below.

Solve. Show your work.

- LL.** The rectangular tank shown is filled with water to $\frac{4}{5}$ of its height. The water is then poured into the cubical tank until the cubical tank is half full. How much water is left in the rectangular tank? Give your answer in liters. (1 L = 1,000 cm³)



Name: _____

Date: _____

Solve. Show your work.

MM. A train broke down and the passengers had to alight and take buses to continue their journey. When the first bus came, $\frac{1}{4}$ of the passengers tried to board, but 4 of them were not able to get on. When the second bus came, $\frac{1}{2}$ of the remaining passengers tried to board, but 6 of them were not able to get on. When the third bus came, $\frac{3}{4}$ of the remaining passengers boarded. There were still 8 passengers left stranded. How many passengers were on the train?



Metric units of length: kilometers, meters, centimeters and millimeters

Grade 5 Measurement Worksheet

Week 7 Fluency

Note: 1 kilometer (km) = 1,000 meter (m)

1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1. 41 m = _____ mm 2. 12 cm = _____ mm

3. 81 m = _____ cm 4. 94 m = _____ mm

5. 14 m = _____ cm 6. 52 m = _____ mm

7. 67 cm = _____ mm 8. 78 m = _____ cm

9. 42 m = _____ cm 10. 35 cm = _____ mm

Convert to the units shown:

11. 2,000 mm = _____ m 12. 8,000 cm = _____ m

13. 8,000 mm = _____ m 14. 2,000 mm = _____ cm

15. 3,000 cm = _____ m 16. 4,000 cm = _____ m

17. 9,000 mm = _____ m 18. 3,000 mm = _____ cm

19. 9,000 cm = _____ m 20. 4,000 mm = _____ cm



Metric units of length: kilometers, meters, centimeters and millimeters

Grade 5 Measurement Worksheet *Week 7 Fluency*

Note: 1 kilometer (km) = 1,000 meter (m)
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1. 31 m = _____ mm
2. 28 m = _____ mm
3. 72 m = _____ cm
4. 27 m = _____ cm
5. 16 cm = _____ mm
6. 59 m = _____ mm
7. 77 m = _____ mm
8. 94 m = _____ cm
9. 48 m = _____ cm
10. 62 m = _____ cm

Convert to the units shown:

11. 8,000 mm = _____ m
12. 3,000 mm = _____ m
13. 9,000 mm = _____ m
14. 3,000 mm = _____ cm
15. 1,000 mm = _____ m
16. 6,000 cm = _____ m
17. 6,000 mm = _____ cm
18. 9,000 mm = _____ cm
19. 2,000 cm = _____ m
20. 7,000 cm = _____ m

54. What is the value of digit 5 in 3.005?

- (A) 0.005
- (B) 0.05
- (C) 0.5
- (D) 5

55. A number has 3 decimal places. When rounded to the nearest hundredth, the number is 7.6. Which number is the greatest possible number?

- (A) 7.551
- (B) 7.599
- (C) 7.649
- (D) 7.659

56. Which numbers or expressions are the same as $5\frac{1}{1,000}$?

Choose the **two** correct answers.

- (A) 5.001
- (B) 5.01
- (C) 5.1
- (D) $\frac{51}{1,000} + \frac{1}{1,000}$
- (E) $\frac{500}{100} + \frac{1}{1,000}$

57. A stack of books is 8.56 inches high. A stack of papers is 4.4 inches high. How much taller is the stack of books than the stack of papers?

- (A) 4.16 inches
- (B) 4.52 inches
- (C) 4.56 inches
- (D) 12.96 inches

58. What is the value of 0.003×400 ?

- (A) 0.012
- (B) 0.12
- (C) 1.2
- (D) 12

59. Which of the following has the same value as $2.4 \div 800$?
Choose the **two** correct answers.

- (A) $3 \div 1000$
- (B) $30 \div 1000$
- (C) $0.3 \div 100$
- (D) 0.03×10
- (E) 0.03×100

Name: _____

Date: _____



Solve. Show your work.

00. The volume of 12 buckets is the same as the volume of 9 bottles. The total volume of 3 bottles and 5 buckets is 21.6 liters. What is the volume of 1 bucket?

- PP. On a test, Pauline answered all 5 questions. She spent two fifths of the total time allowed answering the first 2 questions, and one half of the total time allowed answering the next 2 questions. She found that she had only 6 minutes left for the last question. Pauline had wanted to spend an equal amount of time on each question. How much time should she have spent on each question?