Everyday Math and PSSA Review

Directions: The following questions are to help you remember and review the skills you have been taught. Most of the questions are multiple choice and some are short answer.

For every question, **show your work**. Circle any questions that are difficult.

<u>Please complete this review by April 6th</u>.

An answer key will be posted on my website for additional help.

1. Mrs. Jackson has 47 boxes of crayons.

There are 8 crayons in each box.

To estimate the total number of crayons, she uses the steps shown below.

• round 47 to the nearest ten
• multiply the new number by 8

What is Mrs. Jackson's estimate of the total number of crayons?

   A. 320
   B. 400
   C. 450
   D. 580

2. George bought 9 cases of bottled water.

Each case had 18 bottles of water in it.

To estimate the number of bottles of water he bought, George rounded 18 to the nearest ten and then multiplied that number by 9.

What is George's estimate of the number of bottles of water he bought?

   A. 90
   B. 180
   C. 209
   D. 290

3. Kelly is planting groups of seeds.

She places 4 seeds into each group.

She plants 22 groups of carrot seeds and 38 groups of lettuce seeds.

How many total seeds does Kelly plant?

   A. 200
   B. 240
   C. 300
   D. 640

4. Three students were comparing how many times they each jumped on a trampoline.

- Chris jumped 345 times.
- Keisha jumped 356 times.
- Larissa jumped more times than Chris and fewer times than Keisha.

When each student's total was rounded to the nearest hundred, Chris' total and Larissa's total were the same.

Which value could be the number of times Larissa jumped on the trampoline?

A. 305
B. 347
C. 350
D. 362

**5.** The table below shows the number of loaves of bread baked at a bakery on three days.

Bread Baked

Day	Loaves Baked in the Morning	Loaves Baked in the Afternoon
Monday	302	636
Tuesday	78	511
Wednesday	410	316

Which list shows the days in order of total number of loaves of bread baked from **least** to **greatest**?

A. Monday Tuesday Wednesday
B. Tuesday Monday Wednesday
C. Wednesday Tuesday Monday
D. Tuesday Wednesday Monday

6. In Sierra's third-grade class, $\frac{3}{8}$ of the students are boys.

Which number line has a point on the fraction of the students that are boys?
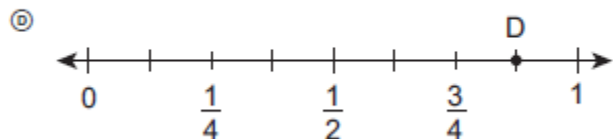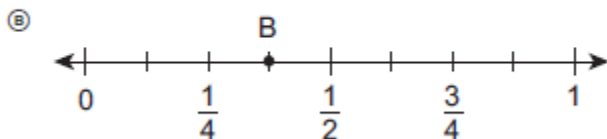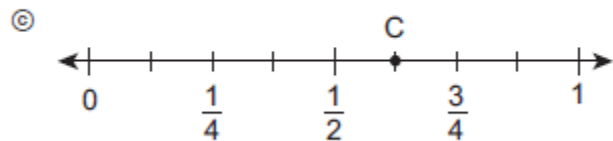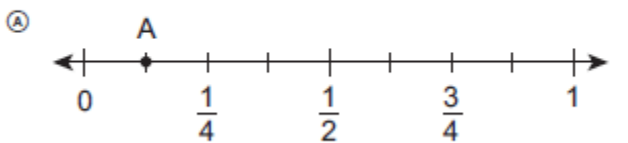
7. Bill and Cindy ate some pieces from the same pie.
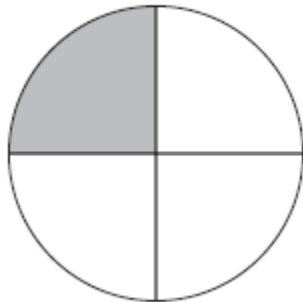
Bill ate $\frac{3}{8}$ of the pie.

Cindy ate $\frac{1}{8}$ of the pie.

Which statement is true?

    A. Bill ate more pie than Cindy.
    B. Cindy ate more pie than Bill.
    C. Bill and Cindy ate the whole pie.
    D. Bill and Cindy ate the same amount of pie.

8. Fatima drew the figure shown below and shaded part of it.

Which fraction is equal to the amount Fatima shaded?

    Ⓐ $\frac{2}{10}$

    Ⓑ $\frac{2}{8}$

    Ⓒ $\frac{2}{6}$

    Ⓓ $\frac{3}{1}$

9. There are 8 players on a basketball team.

There are 4 girls on the team.

What fraction of the players on the team are girls?

- Ⓐ $\frac{1}{5}$
- Ⓑ $\frac{1}{4}$
- Ⓒ $\frac{1}{3}$
- Ⓓ $\frac{1}{2}$

10. Lou bought 6 doughnuts.

There were 2 doughnuts with sprinkles.

Which fraction represents the doughnuts Lou bought that had sprinkles?

- Ⓐ $\frac{1}{5}$
- Ⓑ $\frac{1}{3}$
- Ⓒ $\frac{2}{4}$
- Ⓓ $\frac{6}{10}$

11. Brent gave 8 colored pencils to each of his 4 friends.

Which number sentence can be used to find the total number of colored pencils (□) Brent gave to his friends?

- Ⓐ $8 + 4 = \square$
- Ⓑ $8 - 4 = \square$
- Ⓒ $8 \times 4 = \square$
- Ⓓ $8 \div 4 = \square$

12. Kayla has 12 seeds.

She plants an equal number of seeds in each of 4 pots. How many seeds did Kayla plant in each pot?

- A. 3
- B. 8
- C. 16
- D. 48

13. Jill puts 24 brownies onto ☐ plates.

She put 4 brownies onto each plate.

The number sentence below can be used to find how many plates Jill uses.

$$24 \div \square = 4$$

How many plates (☐) does Jill use for brownies?

- Ⓐ 6
- Ⓑ 8
- Ⓒ 20
- Ⓓ 28

14. There are 3 gorillas living in a zoo.

Each gorilla eats 40 pounds of food each day.

The expression 3 × 7 × 40 represents the total amount of food, in pounds, the 3 gorillas eat in one week.

Which expression also represents the total amount of food, in pounds, the 3 gorillas eat in one week?

- A. 3 × 47
- B. 7 × 43
- C. 28 × 40
- D. 120 × 7

15. There are 4 tables in Cleo's classroom.

She puts 2 packages of crayons on each table.

Each package has 8 crayons.

Cleo finds the total number of crayons on the tables by multiplying 4 × 2 × 8.

Which expression shows another way Cleo could find the total number of crayons on the tables?

- A. 4 + 2 + 8
- B. 4 × 8 + 2
- C. 2 × 4 × 8
- D. 2 × 4 + 8

16. Joey has 27 toy cars.

He puts an equal number of cars on each of the 3 shelves in his room.

He uses division to find the numbers of cars on each shelf.

Which number sentence shows a way Joey could find the number of cars on each shelf?

    A. 3 + ? = 27
    B. 3 × ? = 27
    C. 3 + 27 = ?
    D. 3 × 27 = ?

17. There are 6 ponies for children to ride at the fair.

In one hour, the ponies gave a total of 42 rides.

Each pony gave the same number of rides.

The equation below shows how to find the number of rides (☐) each pony gave.

$$42 \div 6 = \square$$

Which equation shows another way to determine how many rides (☐) each

    Ⓐ $42 - \square = 6$
    Ⓑ $6 + \square = 42$
    Ⓒ $\square \div 42 = 6$
    Ⓓ $6 \times \square = 42$

18. Eva buys 3 bags of balloons.

There are 4 red balloons and 5 blue balloons in each bag.

Which expression shows how many red and blue balloons Eva buys?

    A. 3 + 4 + 5
    B. 3 × 4 × 5
    C. 3 + 4 × 3 + 5
    D. 3 × 4 + 3 × 5

19. A bathtub is filled with 50 gallons of water.

Each gallon of water weighs between 8 and 9 pounds.

Which weight, in pounds, is **closest** to the weight of the water in the bathtub?

    A. 42

    B. 420

    C. 4,200

    D. 42,000

20. Ed picked ☐ baskets of berries.

Jasmine picked 2 more baskets of berries than Ed picked.

Ed and Jasmine picked a total of 8 baskets of berries.

Which equation can be used to find the number of baskets (☐) Ed picked?

    Ⓐ ☐ + 2 = 8

    Ⓑ ☐ × 2 = 8

    Ⓒ ☐ + ☐ + 2 = 8

    Ⓓ ☐ + ☐ × 2 = 8

21. Carlos volunteers ☐ days at the library each month.

In March, he volunteered 3 extra days at the library.

In January, February, and March, Carlos volunteered a total of 39 days at the library.

Which pair of equations shows the number of days (☐) Carlos volunteers each month?

    Ⓐ 3 × ☐ + 3 = 39
          ☐ = 12

    Ⓑ 3 × ☐ = 39
          ☐ = 13

    Ⓒ 3 × ☐ − 3 = 39
          ☐ = 14

    Ⓓ 3 + ☐ = 39
          ☐ = 36

22. Last year, José subscribed to 4 different magazines.

He received 6 issues of each magazine.

He also bought 7 issues of other magazines at a bookstore.

Which pair of equations shows the total number of magazine issues ($\square$) José got last year?

Ⓐ $4 + 6 + 7 = \square$
$\square = 17$

Ⓑ $4 \times 6 + 7 = \square$
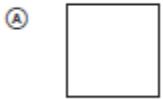$\square = 31$

Ⓒ $4 \times 7 + 6 = \square$
$\square = 34$

Ⓓ $4 + 7 \times 6 = \square$
$\square = 46$

23. Marquis and Shawn built a tree house.

The shape of the floor of the tree house is a quadrilateral.

The shape of the floor is **not** a rectangle or a rhombus.

Which quadrilateral could be the shape of the floor of the tree house?

Ⓐ

Ⓑ

Ⓒ

Ⓓ

24. A map is drawn in the shape of a square.

The map is then divided into parts.

Each part has an area equal to $\frac{1}{4}$ the area of the entire map.

Each part is a rectangle but is **not** a square.
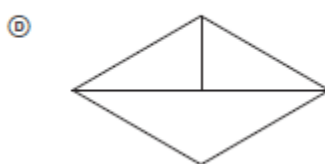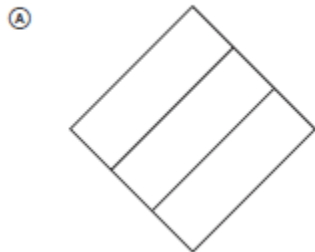
Which figure could show how the map is divided?
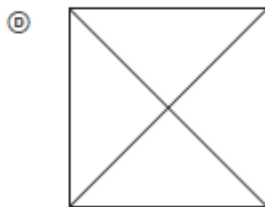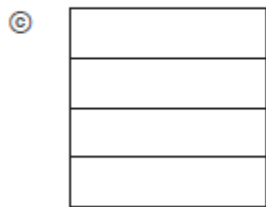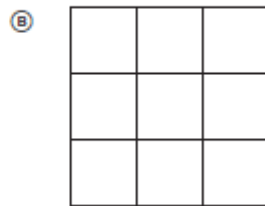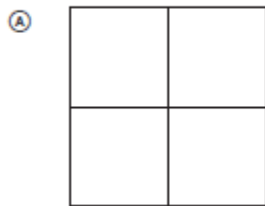
25. Carol draws a rhombus.

It is **not** a square.

She divides it into three equal-size parts.

Which figure could be Carol's rhombus?

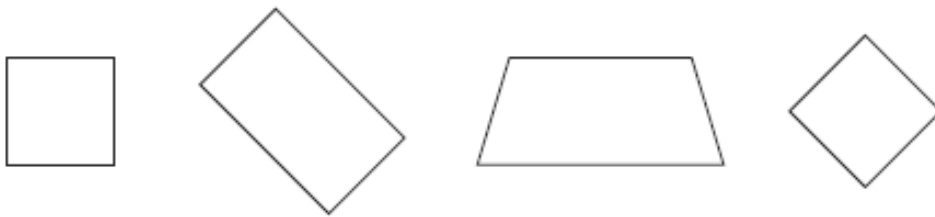**26.** Paul divides a shape into two parts by drawing one line as shown below.

Which term describes the two parts and the original shape?

    A. octagon
    B. quadrilateral
    C. rhombus
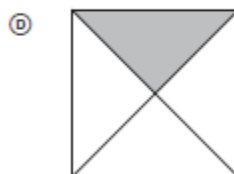   D. square

27. Four shapes are shown below.
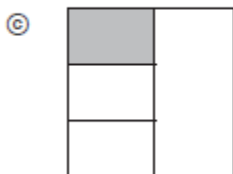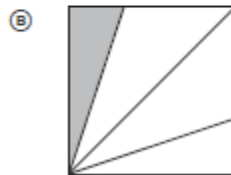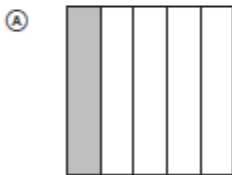
Which statement is true?

    A. The four shapes are all trapezoids.
    B. The four shapes are all rectangles.
    C. The four shapes are all quadrilaterals.
    D. The four shapes are all parallelograms.

28. Lee has quilt patches.

Which quilt patch has $\frac{1}{4}$ of its area shaded?

29. Dana has three coins in her pocket.

No two coins have the same value.

What is the **least** amount of money Dana could have in her pocket?

    A. 3¢
    B. 11¢
    C. 16¢
    D. 40¢

30. Kelly went to bed 30 minutes after the time shown on the clock.

At what time did Kelly go to bed?

    A. 8:40
    B. 9:20
    C. 9:40
    D. 10:20

31. Marco arrived at the beach between 10:30 A.M. and 10:35 A.M.

He left the beach between 11:10 A.M. and 11:15 A.M.

Which is a possible amount of time Marco was at the beach?

    A. 25 minutes
    B. 40 minutes
    C. 60 minutes
    D. 75 minutes

32. Ethan is knitting a blanket.

He will use 20 balls of yarn.

There are 8 ounces of yarn in each ball.

How many ounces of yarn will Ethan use to knit the blanket?

    A. 28
    B. 100
    C. 160
    D. 208

33. Dante bought a package of carrots that cost $3.76.

He used $4.00 to pay for the carrots.

Which group of coins shows the correct amount of change Dante should receive after paying for the carrots?
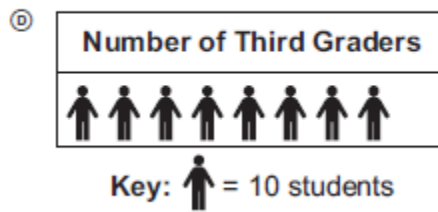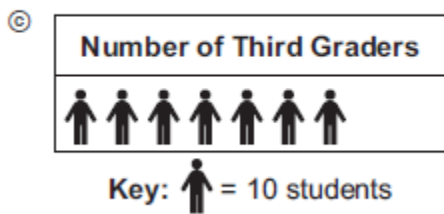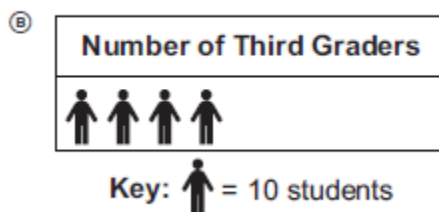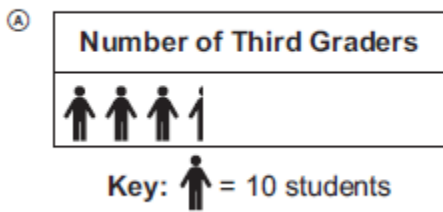

34. Megan buys a book.

Rounded to the nearest dollar, her book costs $8.

Which amount could be the exact cost of the book?

    A. $7.48
    B. $7.61
    C. $8.83
    D. $9.08

35. There are 77 third graders at Tyler's school.

Which pictograph shows this number of third graders rounded to the nearest 10?

Ⓐ
Number of Third Graders
🧍🧍🧍🧍

Key: 🧍 = 10 students

Ⓑ
Number of Third Graders
🧍🧍🧍🧍

Key: 🧍 = 10 students

Ⓒ
Number of Third Graders
🧍🧍🧍🧍🧍🧍🧍

Key: 🧍 = 10 students

Ⓓ
Number of Third Graders
🧍🧍🧍🧍🧍🧍🧍🧍

Key: 🧍 = 10 students
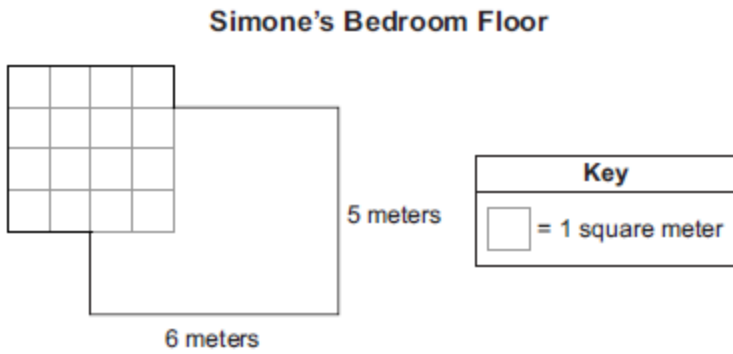
37. The table below shows how much time Sam practiced each week.

Sam's Practice Times

Week	Time (minutes)
1	25
2	20
3	40

Which bar graph shows how much time Sam practiced each week?

Ⓐ Sam's Practice Times
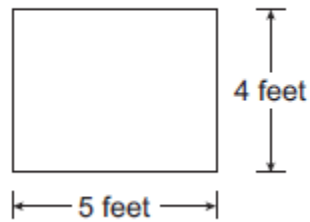
Ⓑ Sam's Practice Times

Ⓒ Sam's Practice Times

Ⓓ Sam's Practice Times
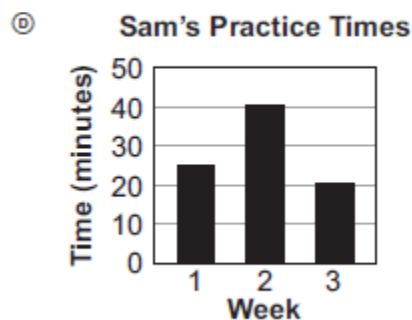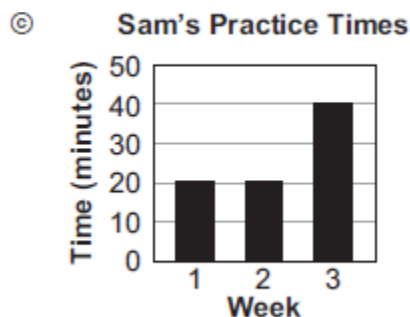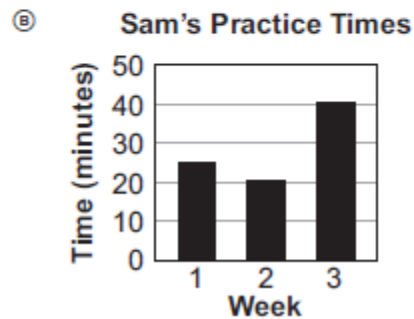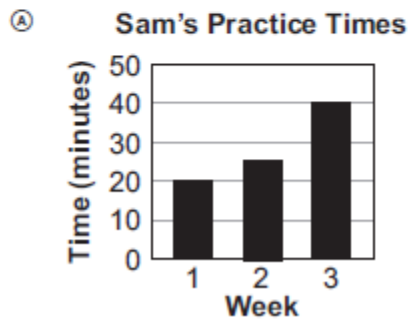
38. The drawing below shows Simone's bedroom floor.

Simone's Bedroom Floor
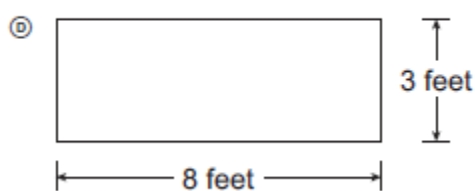

5 meters

Key
☐ = 1 square meter

6 meters
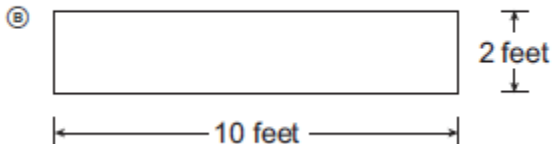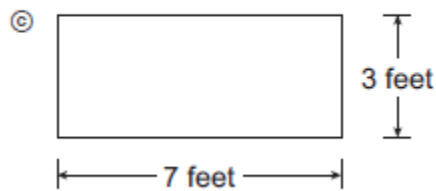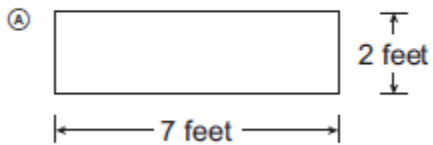
What is the area, in square meters, of Simone's bedroom floor?

A. 17

B. 27

C. 40

D. 46

39. Natalie made a rug in the shape of the rectangle shown below.

4 feet

5 feet

Which rug has the same area as the one Natalie made?

Ⓐ

2 feet

7 feet

Ⓒ

3 feet

7 feet

Ⓑ

2 feet

10 feet

Ⓓ

3 feet

8 feet

40. The size and shape of home plate on a baseball field are shown below.
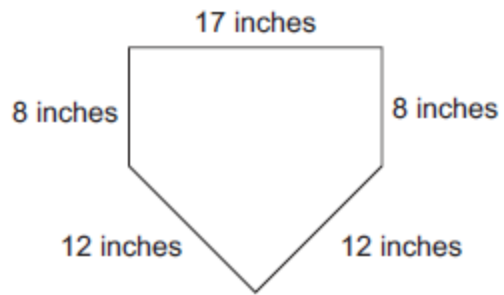
What is the perimeter, in inches, of home plate?

    A. 37

    B. 40

    C. 57

    D. 136

41. Marco bought a cake for his family.

The picture below shows the top of Marco's cake.

Marco's Cake

A. What word describes the shape of the top of Marco's cake?

PUT your answer in the **BLANK BELOW.**

Answer: _____

Marco cut the cake into 8 equal pieces.

B. SHOW two ways Marco could cut his cake into 8 equal pieces.

41. *Continued.* Please refer to the previous page for task explanation.

The top of Nikki's cake is shown below.

Nikki's Cake

She cut her cake into 16 equal pieces.

Nikki says that her cake is bigger than Marco's cake because it has more pieces.

C. EXPLAIN why Nikki is **not** correct.

_____

_____

_____

_____

_____

_____

_____

43. Jake has some pieces of wood.

Each piece of wood is in the shape of a rectangle.

Jake is painting a piece of wood that has side lengths of 2 feet and 6 feet.

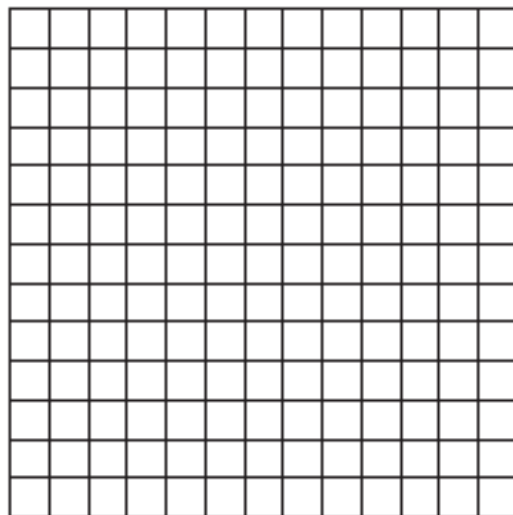**A.** What is the area, in square feet, of the piece of wood?

PUT your answer in the **BLANK BELOW**.

Answer: _____ square feet

Jake paints another piece of wood that has the same area as the first one.

None of the side lengths of the piece of wood is 2 feet.

B. DRAW and **SHADE** in a rectangle on the grid below to represent one possible size of the second piece of wood.

☐ = 1 square foot

43. *Continued.* Please refer to the previous page for task explanation.

C. Using multiplication, **EXPLAIN** how you know the rectangle you drew in **part B** has the same area as the first piece of wood.

_____

_____

_____

_____

_____

D. Without using multiplication, **EXPLAIN** how you know the rectangle you drew in **part B** has the same area as the first piece of wood.

_____

_____

_____

_____

_____