

Saint James Elementary School

2025 - 2026 Summer Math Packet Rising Seventh Grade

Dear Rising Seventh Graders and Parents,

Congratulations on your successful completion of sixth grade! We are so excited that you will soon join us as a seventh grader. It is our hope that this summer packet will help you begin preparation for the upcoming school year.

Parents, please assist your child by supporting them as they complete the summer packet. The attached work should be completed over the summer and is designed to be worked on for 15 to 30 minutes a day throughout the summer, rather than completed in just a few days at the beginning or end of the summer. As with all math, it is important to show your work to support your answers.

If you find areas of mathematics that are more challenging, please make note to share with your teacher once you return. Parents, when the packet is complete, please initial the packet and return it to your child's teacher no later than the **first Friday** of the first week of school to receive credit.

Please note: If this assignment is not submitted on time, students are responsible for submitting the late assignment within three (3) school days following the due date. Five (5) points will be deducted per school day and will result in a zero on the fourth (4th) day.

We look forward to a productive and enjoyable school year. Have a safe and wonderful summer!

Sincerely,
The Seventh Grade Math team

DIRECTIONS

Read each question carefully. For a multiple-choice question, determine the best answer to the question from the four answer choices provided. For a griddable question, determine the best answer to the question. Then fill in the answer on your answer document.

- 1 A pet store owner will order dog beds for his shop. The relationship between x , the number of boxes he will order, and y , the number of dog beds he will receive, can be represented by the equation $y = 12x$.

Which table contains only values that represent the equation?

A Dog Beds

Number of Boxes, x	Number of Dog Beds, y
3	36
6	72
9	108
15	180

C Dog Beds

Number of Boxes, x	Number of Dog Beds, y
3	36
6	72
9	108
15	144

B Dog Beds

Number of Boxes, x	Number of Dog Beds, y
2	14
6	18
10	22
14	26

D Dog Beds

Number of Boxes, x	Number of Dog Beds, y
2	24
6	36
10	48
14	60

2 Rebecca bought air filters at a store.

- She bought 8 air filters.
- Each air filter cost \$16.95.
- Rebecca used a coupon for \$7.50 off her total cost of the air filters.

The total cost in dollars that Rebecca paid for these 8 air filters can be represented by this expression.

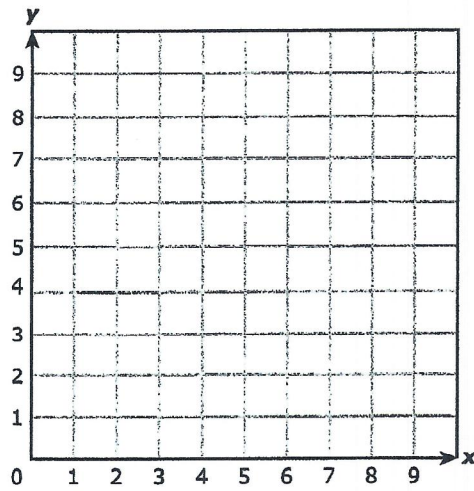
$$(8 \times 16.95) - 7.50$$

How much did Rebecca pay for these 8 air filters?

- F** \$80.70
- G** \$143.10
- H** \$128.10
- J** \$75.60

3 Jim plotted the following ordered pairs on a coordinate grid.

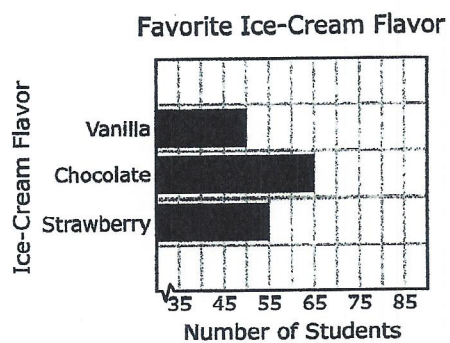
$(1, 3)$ $(3, 6)$ $(7, 6)$ $(9, 3)$



Jim connected the points with line segments to form a polygon. Which point is located inside the polygon?

- A $(4, 5)$
- B $(8, 6)$
- C $(5, 7)$
- D $(3, 1)$

- 4 The fifth-grade students at Oakwood Elementary School recorded their favorite ice-cream flavor on the graph shown.



How many students did not pick strawberry as their favorite ice-cream flavor?

- F** 55
- G** 120
- H** 125
- J** 115

- 5 Darendra worked for 3 weeks. The shaded parts of the model represent the fraction of each week she worked from her home office.

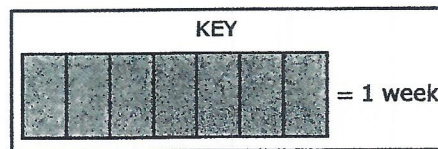
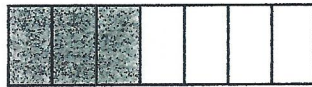
Week 1



Week 2



Week 3



Which expression can be used to determine the number of weeks Darendra worked from her home office over these 3 weeks?

- A $3 + \frac{3}{4}$
- B $3 + \frac{3}{7}$
- C $3 \times \frac{3}{4}$
- D $3 \times \frac{3}{7}$

-
- 6 What is 0.64 rounded to the tenths place?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

- 7** Ms. Jaffey had a total of 428.5 ounces of pretzels to put into 5 bowls for a party. She put an equal number of ounces of pretzels into each bowl.

How many ounces of pretzels did Ms. Jaffey put into each bowl?

- A** 85.7 oz
 - B** 97.7 oz
 - C** 80.0 oz
 - D** 85.3 oz
-

- 8** Jacob wrote the expression shown.

$$10 \div 5 + 4(72 - 6)$$

What do these parentheses indicate in the expression?

- F** Divide 10 by 5 before adding 4
- G** Multiply 4 by 72 before subtracting 6
- H** Add 5 and 4 together before subtracting 6 from 72
- J** Subtract 6 from 72 before multiplying by 4

- 9 The owner of a snow-cone stand used $\frac{1}{4}$ gallon of syrup to make 16 cherry snow cones. She used the same amount of syrup in each snow cone.

How much syrup in gallons was used in each cherry snow cone?

- A $\frac{1}{4}$ gal
 - B 4 gal
 - C $\frac{1}{64}$ gal
 - D 64 gal
-

- 10 Cheyenne works 15 hours a week at the movie theater. She earns \$8 an hour.

Which statement about her weekly income is true?

- F Her net income is more than \$120.
- G Her gross income is less than \$120.
- H Her net income is less than \$120.
- J Her gross income is more than \$120.

11 Three friends rode their bikes last week.

- Christine rode her bike 27 kilometers.
- Philip rode his bike 12 kilometers less than Christine.
- Nathan rode his bike 3 times as far as Philip.

Which equation represents n , the distance in kilometers Nathan rode his bike?

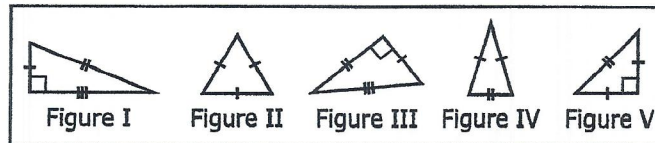
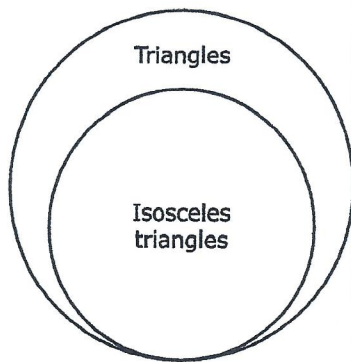
A $(27 + 12) \div 3 = n$

B $(27 - 12) \times 3 = n$

C $(27 - 12) \div 3 = n$

D $(27 + 12) \times 3 = n$

- 12 A student used this graphic organizer to classify different figures.



Which figures belong in the part of the organizer labeled "Isosceles triangles"?

- F Figures II and V only
 - G Figures I, III, and V only
 - H Figures I and III only
 - J Figures II, IV, and V only
-
- 13 Dion ran 3.75 kilometers each day to prepare for a race. What was the number of kilometers that Dion ran during 28 days?
- A 10.5 km
 - B 105 km
 - C 1,875 km
 - D 18.75 km

- 14 Four students are traveling to a math contest. The table shows the weights of the four students' suitcases.

Weights of Suitcases

Student	Weight of Suitcase (pounds)
Juan	21.605
Tiana	24.8
Kimberly	21.48
Emanuel	24.75

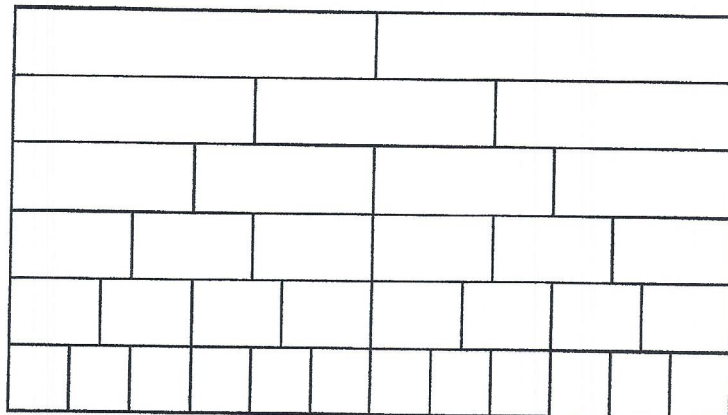
In what position would Juan's suitcase be if the weights of the suitcases in pounds were ordered from greatest to least?

- F First
- G Second
- H Third
- J Fourth

- 15 Vanna used the fraction strips shown to help her determine the difference between

$$\frac{5}{6} \text{ and } \frac{1}{4}.$$

Fraction Strips



What is $\frac{5}{6} - \frac{1}{4}$?

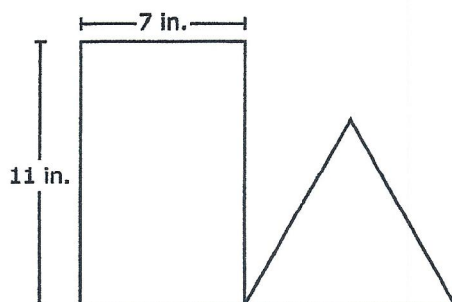
A $\frac{1}{5}$

B $\frac{7}{12}$

C $\frac{1}{2}$

D $\frac{5}{8}$

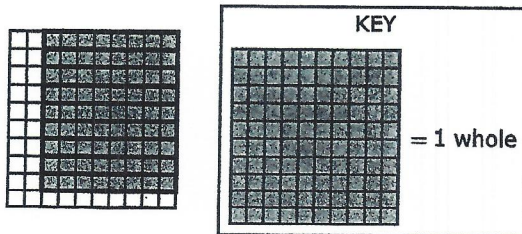
- 16** The combined perimeter of the rectangle and triangle is 63 inches. The model shows the dimensions of the rectangle.



What is the perimeter in inches of the triangle?

- F** 27 in.
- G** 45 in.
- H** 9 in.
- J** 21 in.

- 17 The hundredths model is shaded to represent a division problem.



Which equation is represented by the model?

- A $0.72 \div 9 = 9$
 - B $0.72 \div 9 = 0.09$
 - C $0.72 \div 9 = 8$
 - D $0.72 \div 9 = 0.08$
-
- 18 Yvonne is using a coordinate grid for the first time. She wants to find the location of the ordered pair (3, 7) on the grid.
- Starting at the origin, which movement should Yvonne do first?
- F Move right along the x-axis to 3
 - G Move up along the y-axis to 3
 - H Move right along the y-axis to 7
 - J Move up along the x-axis to 7

19 Mr. Wilfred used a full 2-liter bottle of liquid soap to fill two soap containers.

- He put 0.475 liter of soap in the first container.
- He put 0.35 liter of soap in the second container.

How many liters of liquid soap remained in the bottle?

- A 0.825 L
B 0.625 L
C 1.175 L
D 1.49 L

20 The stem and leaf plot shows the numbers of sit-ups a group of students did in P.E.

Number of Sit-ups

Stem	Leaf
0	9
1	3 7 9
2	0 3 6
3	1 2 5 5 7
4	4 6 7 7
5	0 3
6	2 2
7	6
8	
9	0 2

6|2 means 62.

What is the difference between the number of students who did more than 36 sit-ups and the number of students who did fewer than 25 sit-ups?

- F 11
G 6
H 18
J 1

- 21** Mr. Nolan paid \$36.95 for each adult shirt and \$23.95 for each youth shirt he bought. Mr. Nolan bought 2 adult shirts and 5 youth shirts.

How much money did he spend on these shirts?

- A** \$167.35
 - B** \$258.65
 - C** \$232.65
 - D** \$193.65
-

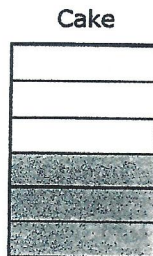
- 22** The length of one edge of a cube is 3 units. What is the volume of this cube in cubic units?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

- 23** Kristin drinks 0.5 liter of orange juice with breakfast each day for 15 days. How many milliliters of orange juice does Kristin drink during the 15 days?

A 15,000 mL
B 7,500 mL
C 750 mL
D 500 mL

- 24** The model is shaded to represent the remaining one-half of a cake. Three friends will each receive an equal amount of the remaining cake until it is all gone.



Which equation can be used to determine the fraction of the whole cake each friend will receive?

- F** $\frac{1}{2} \times 3 = \frac{3}{2}$
G $\frac{1}{2} \times 6 = \frac{6}{2}$
H $\frac{1}{2} \div 3 = \frac{1}{6}$
J $\frac{1}{2} \div 6 = \frac{1}{12}$

25 Which inequality is NOT true?

- A** $65.7 < 67.54$
 - B** $4.003 > 4.03$
 - C** $26.4 < 26.48$
 - D** $0.91 > 0.097$
-

26 The table shows x -values and y -values for a number pattern.

x	y
12	18
24	30
48	54
60	66

Which statement is true?

- F** The pattern is multiplicative, because the y -values are 1.5 times the corresponding x -values.
- G** The pattern is multiplicative, because the y -values are 6 more than the corresponding x -values.
- H** The pattern is additive, because the y -values are 1.5 times the corresponding x -values.
- J** The pattern is additive, because the y -values are 6 more than the corresponding x -values.