

*St. James Summer Math Packet

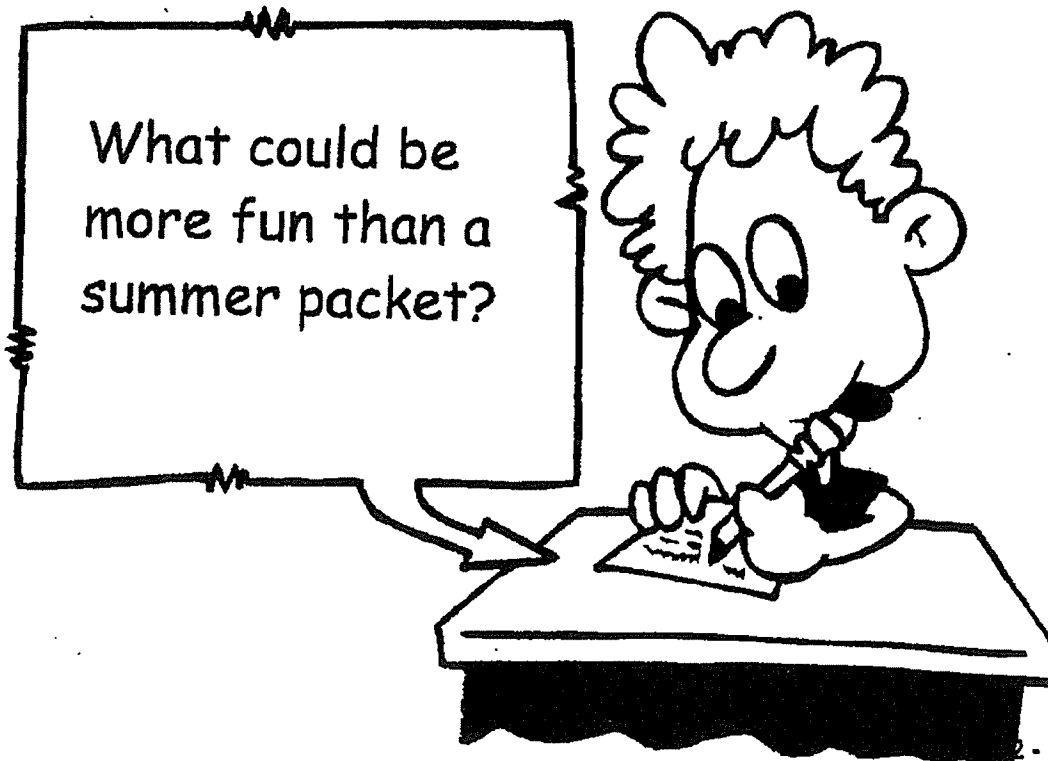
Students Entering 6th grade

This Summer Math Packet is for all students who will be entering 6th grade in the fall

Please Note: This packet contains two sections. The first section is a review of grade 5 concepts. The second section is readiness for grade 6.

This packet should be completed prior to the start of school and will be collected during the first week of school.

Have a great Summer!



One ounce is about the same as 0.06 pound. What is 0.06 written as a fraction?

- A $\frac{6}{10}$
- B $\frac{1}{6}$
- C $\frac{1}{60}$
- D $\frac{6}{100}$

Which of the following is equal to $\frac{59}{1000}$?

- A 5.9
- B 0.59
- C 0.509
- D 0.059

Order the numbers from least to greatest.

4.18 4.5 4.018 0.432

What is the sum of 7.535 and 29.02?

Gary is buying two posters. One poster costs \$5.43 and the second costs \$13.36. How much more does the second cost than the first?

A huge metal container in Teddy's backyard forms a perfect cube. Its length, width, and height are each 4 feet. If it rains enough to fill the container, there will be 4^3 cubic feet of water in it. Which of the following is equal to 4^3 ?

- A 256
- B 64
- C 27
- D 12

Which of the following is equal to 6^7 ?

- A 6×7
- B $6 \times 6 \times 6 \times 6 \times 6 \times 6$
- C $7 \times 7 \times 7 \times 7 \times 7 \times 7$
- D $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$

What value of p makes the equation true?

$$32 \times 125 = (32 \times 100) + (32 \times p)$$

- A 5
- B 20
- C 25
- D 32

Justine can type 43 words per minute. At that rate, how many words can she type in 45 minutes?

Juan has 18 stickers in an album. Marissa has 4 times more stickers in her album. Marissa drew the picture below to find out how many stickers she has.

n number of stickers			
18	18	18	18

Which equation represents the problem?

- A $4 \times 18 = n$
- B $n \times 18 = 4$
- C $n \times 4 = 18$
- D $18 \times 18 \times 18 \times 18 = n$

Which of the following is the best estimate of $812 \div 5$?

- A 160
- B 200
- C 250
- D 300

Solve the division problem below.

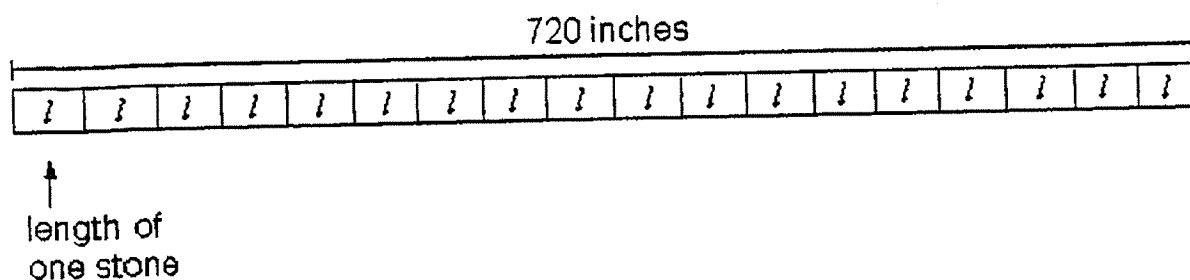
$$6 \overline{)855}$$

- A 19 R1
- B 109 R1
- C 109
- D 119 R1

Juanita and 4 friends are going to distribute leaflets for a Humane Society fundraiser. They want to divide the work equally. If there are 1,035 leaflets to distribute, how many does each need to take?

- A 201 leaflets
- B 207 leaflets
- C 259 leaflets
- D 270 leaflets

Daria is using a single line of paving stones to make a straight path through her garden. The path will be 720 inches long. She is using 18 paving stones. Which of the following can be used to find l , the length of each paving stone?



- A $720 + 18 = l$
- B $720 - 18 = l$
- C $720 \times 18 = l$
- D $720 \div 18 = l$

A spool of ribbon holds 2,400 inches of ribbon. Twenty inches of ribbon are needed for each pillow. How many pillows can be made?

The table shows the total amount of money Darnell earned on Friday, Saturday, and Sunday. Darnell earns \$28 per hour. How can you find the total number of hours Darnell worked during the three days?

Day	Total Amount Earned
Friday	\$168
Saturday	\$112
Sunday	\$196

Shirley bought 20.8 pounds of bird seed at a bargain store. She wants to fill her feeder 100 times with an equal amount. How much seed should she put in the feeder each time?

- A 0.0208 pounds
- B 0.208 pounds
- C 2.8 pounds
- D 2.08 pounds

Find the quotient to the division problem below.

$$2.4 \overline{)68.64}$$

What is the value of the expression $10 - (8 + 6) \div 2 - 1$?

What is the first step in evaluating the expression below?

$$12 + 6 - 4 \div (2 + 5)$$

- A Divide 4 by 2.
- B Add 2 and 5.
- C Add 12 and 6.
- D Subtract 4 from 6.

What is the value of the expression below?

$$7 \times (7 - 4) + 6$$

What is the value of the expression below?

$$9 \times (8 - 5) + 8?$$

What is the value of $n + 8 - n$, if $n = 23$?

There were 26 computers in the computer lab. If c represents the number of computers that were removed from the lab, which expression represents the number of computers that remain in the computer lab?

- A $26 - c$
- B $26 + c$
- C $26 \times c$
- D $26 \div c$

Solve the equation by testing these values for k : 2, 3, 4, and 5.

$$12k = 48$$

- A $k = 5$
- B $k = 4$
- C $k = 3$
- D $k = 2$

What is the value of $11 \times k$ when k is 5?

- A 5
- B 6
- C 55
- D 16

Lucy spent \$15 of her money. If m represents her money, which expression shows how much money Lucy will have left?

- A $15 - m$
- B $m - 15$
- C $\frac{m}{15}$
- D $15 + m$

Which two fractions are equivalent to $\frac{4}{5}$?

- A $\frac{10}{12}, \frac{15}{20}$
- B $\frac{20}{25}, \frac{50}{60}$
- C $\frac{15}{18}, \frac{25}{30}$
- D $\frac{24}{30}, \frac{28}{35}$

Write the fraction in simplest form. Write the fraction in simplest form

$$\frac{9}{12}$$

$$\frac{12}{18}$$

Which of these sums is less than 1?

A $\frac{1}{5} + \frac{3}{8}$

B $\frac{2}{3} + \frac{7}{10}$

C $\frac{7}{8} + \frac{3}{5}$

D $\frac{4}{5} + \frac{5}{8}$

Which of these sums is greater than 1?

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

B $\frac{1}{3} + \frac{1}{8}$

C $\frac{1}{4} + \frac{2}{5}$

D $\frac{1}{5} + \frac{1}{10}$

What is the lowest common denominator you could use to subtract $\frac{1}{6}$ from $\frac{3}{4}$?

The table shows the different sizes of boxes of crayons. What is the least number of Draw It and Art Smart crayons Louis can buy so that he will have the same number of each?

Brand	Number in Box
Draw-It	6
Color Fun	20
Art Smart	15

Girls with brown eyes make up $\frac{2}{5}$ of the class. Boys with brown eyes make up $\frac{1}{3}$ of the class. How much of the class has brown eyes?

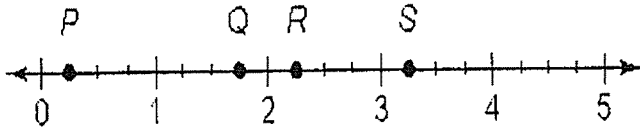
- A $\frac{2}{15}$
- B $\frac{3}{8}$
- C $\frac{4}{5}$
- D $\frac{11}{15}$

Nancy needs to complete $\frac{3}{4}$ of her homework by 5:00. So far she has completed $\frac{1}{3}$ of it. What part of her homework must she still complete by 5:00?

- A $\frac{2}{3}$
- B $\frac{5}{12}$
- C $\frac{3}{7}$
- D $\frac{1}{4}$

Olivia hopes to complete $\frac{4}{5}$ of the levels of her computer game by the end of the week. So far, she has completed $\frac{2}{3}$ of the levels. What part of the levels must she still complete to meet her goal?

Jon hiked $1\frac{3}{4}$ miles. Which point on the number line best represents the distance he hiked?



Carla's younger sister is $4\frac{1}{3}$ feet tall. Carla's younger brother is $2\frac{2}{3}$ feet tall. How much taller is Carla's sister than her brother?

There are 24 stanzas in a song for the school play. Samantha has memorized $\frac{3}{4}$ of them so far. How many stanzas has she memorized?

Cindy has to write an 18-page report. If she has written $\frac{1}{3}$ of her report so far, how many pages has she written?

What is $\frac{2}{3} \times \frac{3}{4}$?

What is $\frac{3}{7} \times \frac{2}{5}$?

What is $2\frac{1}{6} \times 2\frac{1}{4}$?

Each bag of potatoes weighs $5\frac{3}{4}$ pounds. How many pounds
would $2\frac{1}{2}$ bags of potatoes weigh?

Use multiplication to find the quotient.

Switch & Flip $\rightarrow \div$

$$3 \div \frac{2}{3}$$

A $3 \times \frac{2}{3} = 2$

B $3 \times \frac{3}{2} = \frac{9}{2}$

C $3 \times 2 = 6$

D $3 \times 3 = 9$

Use multiplication to find the quotient.

$$7 \div \frac{2}{3}$$

A $7 \times \frac{2}{3} = 2$

B $7 \times \frac{3}{2} = \frac{21}{2}$

C $3 \times 2 = 7$

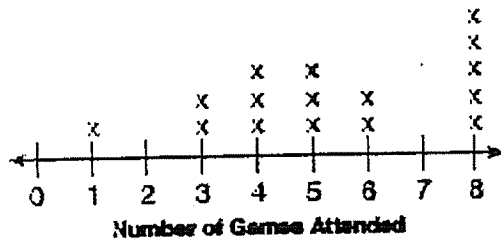
D $3 \times 3 = 9$

Mark the best answer.

1. What is the value of the underlined digit in 12.094?
A nine
B nine tenths
C nine hundredths
D nine thousandths
2. A basketball team played 8 tournament games. The same number of people attended each game. If 16,000 people attended all of the games, how many people attended each game?
A 20 people
B 200 people
C 2,000 people
D 20,000 people
3. Which is the best estimate for $987 + 3,112$?
4. Find $23.1 - 2.56$.
5. The tail of an airplane is 62 feet, 10 inches tall. How many inches tall is the tail?

Use the line plot below to answer the question.

Baseball Games Attended by
16 Classmates in One Season



How many classmates attended 5 or more baseball games?

- A 10
- B 9
- C 8
- D 3

Simplify the expression below.

$$23 + 5.6 \times 2$$

HINT: Order of Operations

Becky bought 5 pounds of bananas.
How many ounces of bananas did
Becky buy?

$1 \text{ pound} = 16 \text{ ounces}$

Mrs. Sample and her 30 students
are collecting box tops to help buy
classroom equipment. The total
number of box tops collected is
found by evaluating the expression
 $30t + 20$. If $t = 6$, what is the value
of the expression?

- A 56
- B 165
- C 180
- D 200

Use number sense. Which of the
following shows the decimal point
placed correctly for the product?

$$78.64 \times 0.48 = t$$

- A 3.77472
- B 37.7472
- C 377.472
- D 3,774.72

Find 2.5×165 .

- A 312.5
- B 412.5
- C 5,225
- D 5,255

Which fraction is equivalent to the fraction of the figure that is shaded?



- A $\frac{9}{27}$
- B $\frac{3}{8}$
- C $\frac{4}{7}$
- D $\frac{7}{3}$

Fatima has $\frac{1}{2}$ gallon of milk. She needs to pour 6 glasses of milk. What fraction of a gallon should she pour into each glass?

- A $\frac{1}{2}$ gallon
- B $\frac{1}{4}$ gallon
- C $\frac{1}{8}$ gallon
- D $\frac{1}{12}$ gallon

Find $91.2 \div 10$.

Which is $\frac{18}{3}$ written as a mixed number in simplest form?

Find $\frac{7}{10} - \frac{1}{5}$.

- A $\frac{1}{2}$
- B $\frac{3}{10}$
- C $\frac{2}{10}$
- D $\frac{9}{10}$

Replace each addend with 0, $\frac{1}{2}$, or 1. What is the best estimate for the sum of $\frac{1}{8} + \frac{8}{9}$?

- A 0
- B 1
- C 2
- D 3

Jackie walked $1\frac{1}{2}$ miles from her home to the park, then 2 miles around the park, and then back home. How many miles did Jackie walk?

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

Which decimal is less than 7.805?

- A 78.05
- B 7.850
- C 7.815
- D 7.585

Find the product below.

$$437 \times 18$$

The winning time for the first dash of a race was 11.7 seconds. Second place was 1.9 seconds slower. What was the finish time for the second place runner?

- A 9.8 seconds
- B 12.6 seconds
- C 13.5 seconds
- D 13.6 seconds

Which is 6,120,888 rounded to the nearest thousand?

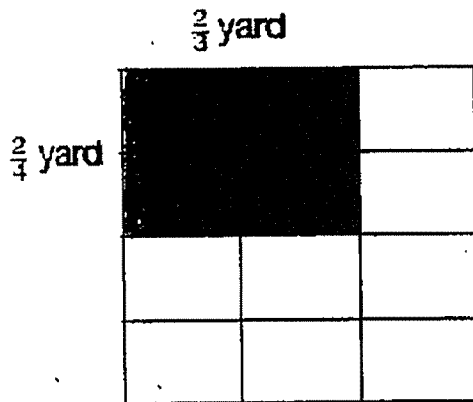
Which is the best estimate for 159×208 ?

- A 30,000
- B 32,000
- C 50,000
- D 80,000

Which is the standard form for
 $6 \times 100,000 + 8 \times 10,000 + 2 \times 100 + 4?$

- A 6,824
- B 608,204
- C 680,024
- D 680,204

Use the model below to find the area of the shaded region.



- A $\frac{4}{7}$ square yards
- B $\frac{1}{2}$ square yards
- C $\frac{1}{3}$ square yards
- D $\frac{1}{4}$ square yards

Find $912 \div 38$.

Compare. Which symbol belongs in the circle?

$4\frac{1}{2} \times 2\frac{2}{3} \bigcirc 2\frac{2}{3}$

- A =
- B <
- C >
- D \times

Which polygon has 4 sides?

- A Pentagon
- B Hexagon
- C Octagon
- D Quadrilateral