

Rising 5th Grade Summer Math Packet

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Welcome to 5th Grade Math!

This year, we will focus on the work of becoming mathematicians. Mathematicians look for patterns, persevere in solving difficult problems, construct reasonable arguments, and work together. To do these things, we need some tools. This packet will help you sharpen your tools to be prepared for 5th grade math. Please do not use a calculator to solve these problems. If you are stumped, watch a video on Khan Academy about the topic that is confusing you, but please do not search for the answer on the internet or ask someone else to do the work for you.

You may complete this math packet on paper. If you do so, we would prefer that you also input your answers online using the link available on the school's website

We suggest that you complete one or two sections each week to keep your skills sharp and to spread out the work. This packet will be due on the first day of school. See you in the fall!

2 Write a number that uses the same 6 digits as 901,735 but where the digit 3 represents 10 times what it represents in 901,735.

(A) 701,395

(B) 703,195

(C) 701,935

(D) 731,095

3 Which symbol belongs in the box to make a true comparison? (use $<$, $=$, or $>$).

Write your answer in the box.

$$2,000 + 300 + 10 + 5$$

$$3,000 + 200 + 30 + 7$$

a

$<$

$>$

$=$

4

Which symbol belongs in the box to make a true comparison? (use $<$, $=$, or $>$).

Write your answer in the box.

Twenty-seven thousand, four hundred ninety

$$20,000 + 7,000 + 400 + 10 + 9$$

a

 $<$ $>$ $=$

5

Fill in the missing digit in the blank in each number that will make each statement true.

$835, _14 >$ Eight hundred thirty-five thousand, eight hundred fourteen

(A) 4

(B) 5

(C) 6

(D) 9

6

Which number when rounded to the nearest ten thousand has a value of 290,000?

(A) 286,314

(B) 298,947

(C) 281,769

(D) 295,986

7

Round 759,048 to the nearest hundred thousand.

8

Select the numbers below that have a value of 950,000 when rounded to the nearest ten thousand.

A 944,806

B 953,782

C 956,270

D 945,867

E 947,603

9

The area of a building is 709,650 square feet.

What is this number rounded to the nearest thousand square feet?

A 700,000

B 709,000

C 709,700

D 710,000

10

Raja worked 40 hours per week for 4 weeks.

Frank worked half the amount of time Raja worked.

How many hours did Frank work during the 4 weeks?

hours.

Show your work.

11

The students in the fourth grade sold 684 erasers for a fund-raiser.

They sold 4 times as many erasers as the students in the fifth grade.

How many erasers did the students in the fifth grade sell?

erasers.

12

The workers at a farm collected 837 chicken eggs and 9 duck eggs.

The number of chicken eggs collected was how many times the number of duck eggs collected?

times as many.

- 13** Eight buses are available for a class trip.
Each bus can seat 56 students.

The letter n represents the number of students that can go on the class trip.

Which equation can be used to find n ? Mark all possible equations.

A $56 \times 8 = n$

B $8 + n = 56$

C $n \times 8 = 56$

D $n \div 8 = 56$

E $56 - 8 = n$

- 14** Write an equation with a variable that could be solved to find the answer to the word problem below.
Do not solve the word problem.

Word problem: There are 133 paper cups at a party, and that is 7 times the number of people at the party. How many people are there?

Mark all possible equations.

A $7 \times \square = 133$

B $133 \div 7 = \square$

C $\square \times 133 = 7$

D $133 + 7 = \square$

- 15** Use the standard algorithm to add.

$$2,746 + 23,694$$

- 16** Use the standard algorithm to add.

$$92,318 + 23,027$$

- 17 Use the standard algorithm to subtract.

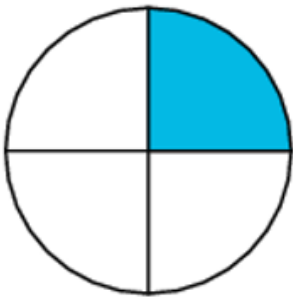
$$62,114 - 49,586$$

- 18 Use the standard algorithm to subtract.

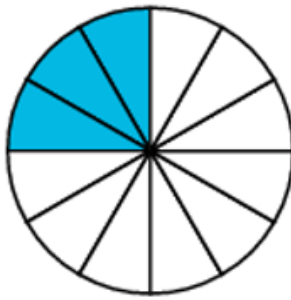
$$4,591 - 1,985$$

- 19 Models of two equivalent fractions are shown.

Fraction 1



Fraction 2



Which statement describes how Fraction 2 can be created from Fraction 1?

- (A) Add 3 to the numerator only.
- (B) Multiply only the numerator by 3.
- (C) Add 3 to the numerator, and add 3 to the denominator.
- (D) Multiply the numerator by 3, and multiply the denominator by 3.

Match each fraction to its equivalent fraction.

$$\frac{6}{18}$$

$$\frac{12}{30}$$

$$\frac{12}{16}$$

$$\frac{8}{10}$$

$$\frac{8}{18}$$

DRAG & DROP THE ANSWER

$$\frac{2}{5}$$

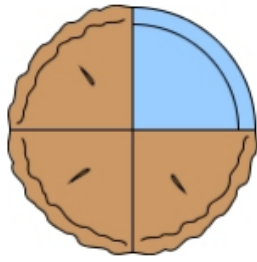
$$\frac{4}{5}$$

$$\frac{4}{9}$$

$$\frac{3}{4}$$

$$\frac{1}{3}$$

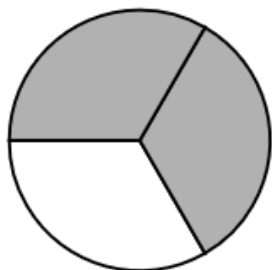
21 Jasmine ate $\frac{1}{4}$ of a pie. She drew a model to represent the fraction of the pie that she ate.



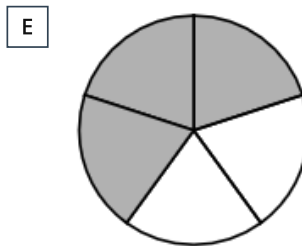
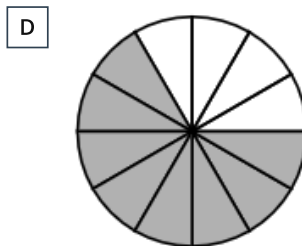
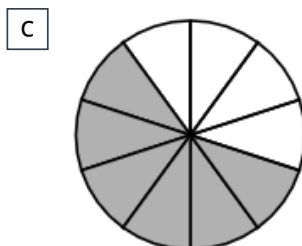
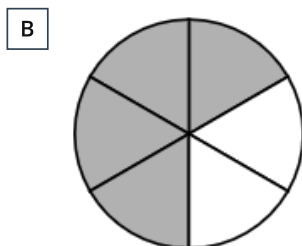
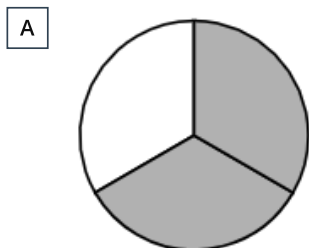
Which fraction is equivalent to the fraction of the pie that Jasmine ate?

- (A) $\frac{2}{5}$
 - (B) $\frac{3}{6}$
 - (C) $\frac{2}{8}$
 - (D) $\frac{1}{12}$
-

Kari's Fraction Model



Select all the models that have been shaded to represent fractions equivalent to Kari's fraction



23 What types of support did you use to complete this packet?

- (a) **A** A family member helped me.
- B** I used a calculator.
- C** I searched the internet for answers.
- D** I watched videos online to help me understand the concepts.
- E** Other (explain below)

(b) How did you feel about completing this math packet? Were the concepts familiar to you? What did you do when you were confused?

24 Mr. Kowolski ordered 35 boxes of granola bars. Each box contained 24 granola bars.

What is the total number of granola bars Mr. Kowolski ordered?

Enter your answer in the box.

25 During a class trip to an apple farm, a group of students picked 2,436 apples. They packed them into 6 boxes to take to the local food bank. If each box held the same number of apples, how many apples were in each box?

- A** 46 apples
- B** 406 apples
- C** 460 apples
- D** 4,060 apples

26 Find the missing value for the following expression.

$$\frac{4}{6} = \frac{?}{3}$$

Answer: is the missing value.

Drag and drop the **three** fractions that are equivalent to $\frac{1}{2}$ to the box.

DRAG & DROP THE ANSWER

$$\frac{5}{10}$$

$$\frac{4}{6}$$

$$\frac{8}{12}$$

$$\frac{4}{8}$$

$$\frac{2}{4}$$

Equivalent to $\frac{1}{2}$

- 28 Isabel used $\frac{2}{3}$ cup of strawberries in a fruit salad. She used less than $\frac{2}{3}$ cup of blueberries in the same salad. Which of the following could be the fraction of a cup of blueberries that Isabel used?

Select the **three** fractions that could represent the fraction of a cup of blueberries.

- A $\frac{1}{2}$
- B $\frac{1}{4}$
- C $\frac{4}{5}$
- D $\frac{5}{6}$
- E $\frac{3}{8}$

- 29 What fraction should be added to $\frac{1}{7}$ to get the value $\frac{6}{7}$?

Answer:

Use slash (/) to separate the numerator and denominator.

30 Which sum shows one way to express $1\frac{5}{6}$?

- (A) $\frac{1}{6} + \frac{2}{6} + \frac{2}{6}$
 - (B) $\frac{1}{6} + \frac{5}{6} + \frac{6}{6}$
 - (C) $\frac{2}{6} + \frac{4}{6} + \frac{5}{6}$
 - (D) $\frac{5}{6} + \frac{5}{6} + \frac{5}{6}$
-

31 Find the difference.

$$3\frac{2}{8} - 1\frac{3}{8}$$

- (A) $1\frac{7}{8}$
 - (B) $2\frac{1}{8}$
 - (C) $3\frac{7}{8}$
 - (D) $4\frac{5}{8}$
-

32 Ramon bought 2.03 pounds of grapes last week. He bought 1.1 pounds of grapes this week. Which number sentence shows how many pounds of grapes Ramon bought in all?

- (A) $2\frac{3}{10} + 1\frac{1}{10} = 3\frac{4}{10}$
 - (B) $2\frac{3}{100} + 1\frac{1}{10} = 3\frac{4}{110}$
 - (C) $2\frac{3}{100} + 1\frac{1}{100} = 3\frac{4}{100}$
 - (D) $2\frac{3}{100} + 1\frac{10}{100} = 3\frac{13}{100}$
-

33 Jaylen read $\frac{3}{8}$ of his book on Monday. He read $\frac{2}{8}$ of his book on Tuesday. What fraction of the book has Jaylen read?

- (A) $\frac{1}{8}$
- (B) $\frac{5}{8}$
- (C) $\frac{5}{16}$
- (D) $\frac{6}{16}$

34 In Mr. Thom's marble collection, $\frac{5}{12}$ of the marbles are glass and $\frac{3}{12}$ of the marbles are steel. What fraction of the marbles in Mr. Thom's marble collection are either glass or steel?

- (A) $\frac{1}{6}$
- (B) $\frac{1}{3}$
- (C) $\frac{5}{8}$
- (D) $\frac{2}{3}$

35 Fill in the missing number.

$$\frac{5}{7} = \square \times \frac{1}{7}$$

The missing number is .

36 Which expression is equivalent to $6 \times \frac{2}{3}$?

- (A) $12 \times \frac{1}{2}$
- (B) $12 \times \frac{1}{3}$
- (C) $6 \times \frac{1}{3}$
- (D) $3 \times \frac{2}{3}$

37 Tatum walks her dog $\frac{2}{3}$ mile every day after school. How many miles does she walk her dog in 5 days?

- (A) $\frac{7}{3}$
- (B) $\frac{10}{3}$
- (C) $\frac{2}{15}$
- (D) $\frac{10}{15}$

38 What is the sum of $\frac{2}{10} + \frac{6}{100}$?

- (A) $\frac{8}{10}$
 - (B) $\frac{8}{100}$
 - (C) $\frac{26}{10}$
 - (D) $\frac{26}{100}$
-

39 Express 0.22 as a fraction.

Answer:

Note: Use slash(/) to separate the numerator and denominator.

40 Which decimal is equivalent to $\frac{41}{100}$?

- (A) 41.0
 - (B) 4.10
 - (C) 0.41
 - (D) 0.041
-

41 Which decimal represents $\frac{3}{100}$?

- (A) 0.30
 - (B) 0.03
 - (C) 3.01
 - (D) 3.10
-

