

Summer Math Packet for Incoming 6th Grade

Dear Students and Families,

As we start thinking about your sixth-grade year, I want you to have the opportunity to practice your math skills. There are only a couple pages to do each week. And you may also choose to do the whole week in one day. Enough work has been provided for 6 weeks, so it is important to do a little at a time and not wait until the end of summer to complete. Since I am the 6th grade math teacher next year, I will be expecting the summer packet completed when you return to school.

I would suggest trying the problems without a calculator to brush up on your skills.

If you are looking for other kinds of math activities, I suggest playing cards with your family, play a board game, do some brain teasers, and maybe go shopping to try to calculate discounts or sales tax.

Sixth Grade Math is similar to 5th grade math but the next level up for each topic and more. It will be much easier to begin 6th grade if all students remember what they learned in 5th grade. Hopefully this packet will give you a jump-start to 6th grade math.

I am looking forward to seeing you next year! Enjoy your summer!

Sincerely,

Mr. Pantaleo



Convert the improper fraction to a mixed number fraction.

$$\frac{17}{5}$$

First divide the numerator by the denominator.

$$17 \div 5 = 3 \text{ r}2$$

$$3 \frac{2}{5}$$

The 3 is your whole number. While the remainder become the numerator.

$$3 \frac{2}{5}$$

Your denominator stays the same. And now you have your mixed number.

Answers

Ex. $8\frac{1}{3}$

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Ex) $\frac{25}{3} = 8\frac{1}{3}$

1) $\frac{24}{10} =$

2) $\frac{58}{9} =$

3) $\frac{21}{2} =$

4) $\frac{77}{8} =$

5) $\frac{20}{8} =$

6) $\frac{58}{6} =$

7) $\frac{22}{6} =$

8) $\frac{3}{2} =$

9) $\frac{54}{8} =$

10) $\frac{13}{3} =$

11) $\frac{74}{7} =$

12) $\frac{14}{4} =$

13) $\frac{31}{8} =$

14) $\frac{31}{4} =$

15) $\frac{92}{9} =$

16) $\frac{16}{6} =$

17) $\frac{33}{9} =$



Solve each problem. Write the answer as an improper fraction (if possible).

Answers

- 1) On Monday Frank spent $2\frac{1}{2}$ hours studying. On Tuesday he spent another $4\frac{1}{2}$ hours studying. What is the combined time he spent studying?
- 2) On Saturday a restaurant used $2\frac{1}{2}$ cans of vegetables. On Sunday they used another $9\frac{1}{2}$ cans. What is the total amount of vegetables they used?
- 3) A small box of nails was $4\frac{1}{3}$ inches tall. If the large box of nails was $2\frac{1}{3}$ inches taller, how tall is the large box of nails?
- 4) An architect built a road $5\frac{2}{4}$ miles long. The next road he built was $8\frac{1}{4}$ miles long. What is the combined length of the two roads?
- 5) A chef bought $7\frac{7}{9}$ pounds of carrots. If he later bought another $8\frac{8}{9}$ pounds of carrots, what is the total weight of carrots he bought?
- 6) During a blizzard it snowed $9\frac{6}{9}$ inches. After a week the sun had melted $5\frac{4}{9}$ inches of snow. How many inches of snow is left?
- 7) For Halloween, Haley received $6\frac{4}{5}$ pounds of candy. After a week her family had eaten $3\frac{4}{5}$ pounds. How many pounds of candy does she have left?
- 8) Adam jogged $5\frac{2}{9}$ kilometers on Monday and $2\frac{3}{9}$ kilometers on Tuesday. What is the difference between these two distances?
- 9) A restaurant had $16\frac{1}{2}$ gallons of soup at the start of the day. By the end of the day they had $10\frac{1}{2}$ gallons left. How many gallons of soup did they use during the day?
- 10) A king size chocolate bar was $14\frac{1}{8}$ inches long. The regular size bar was $12\frac{5}{8}$ inches long. What is the difference in length between the two bars?

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**Solve each problem.****Answers**

- 1) Frank was making some brownies and cupcakes for his school fundraiser. If the brownies needed 2.3 cups of sugar and the cupcakes needed 2.5 cups, how much sugar would he need altogether?
- 2) Sam and Carol were running a relay race. The race was 17.35 kilometers total. If Sam ran 10.55 kilometers how far did Carol run?
- 3) A botanist was measuring how tall her plant grew. After two weeks it had grown 15.46 inches. The second week alone it had grown 5.56 inches! How much did it grow the first week?
- 4) A computer programmer had two files with a total size of 78.86 gigabytes. If one of the files was 30.66 gigabytes, how big is the second file?
- 5) During a science experiment, Mary found the mass of two rocks to be 23.80 grams and 68.7 grams. What is the total mass of these two rocks?
- 6) A weatherman was measuring the amount of rain two cities received over a week. City A received 9.46 inches while City B received 6.6 inches. How much rain did they get total?
- 7) Luke was checking how much power his lights used. His first light by itself used 57.19 amps. When he turned on the second light, together they used 147.59 amps. How many amps did just the second light use?
- 8) Adam was training for a marathon. On his first day he ran 3.71 kilometers. On the second day he ran 1.4 kilometers. How far did he run altogether?
- 9) Faye downloaded two apps which were 10.45 kb total. If one app was 6.55 kb, how big was the other app?
- 10) George was weighing the amount of candy he received for Halloween. If he received 5.49 kg and his brother received 9.7 kg, how much candy did they get all together?

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Solve each problem.

$$\begin{array}{r} 1) \quad 223 \\ \times \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 637 \\ \times \quad 54 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 535 \\ \times \quad 43 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 341 \\ \times \quad 98 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 478 \\ \times \quad 70 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 636 \\ \times \quad 60 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 335 \\ \times \quad 72 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 800 \\ \times \quad 77 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 653 \\ \times \quad 16 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 960 \\ \times \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 362 \\ \times \quad 12 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 493 \\ \times \quad 91 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 165 \\ \times \quad 63 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 600 \\ \times \quad 97 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 271 \\ \times \quad 19 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 250 \\ \times \quad 44 \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 807 \\ \times \quad 55 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 218 \\ \times \quad 54 \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 663 \\ \times \quad 27 \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 335 \\ \times \quad 13 \\ \hline \end{array}$$

Answers

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20. _____



Solve each problem.

$$\begin{array}{r} 1) \quad 48.5 \\ \times \quad 1.1 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 40.01 \\ \times \quad 5.5 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 3.5 \\ \times \quad 3.9 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 25.7 \\ \times \quad 5.8 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 474.2 \\ \times \quad 5.1 \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 6.8 \\ \times \quad 1.8 \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 6.90 \\ \times \quad 3.2 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 930.9 \\ \times \quad 9.0 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 3.1 \\ \times \quad 9.5 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 22.6 \\ \times \quad 8.3 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 84.29 \\ \times \quad 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 3.6 \\ \times \quad 6.2 \\ \hline \end{array}$$

Answers

1. _____

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12. _____



Solve each problem.

1) $6 \overline{) 185}$

2) $3 \overline{) 691}$

3) $3 \overline{) 319}$

4) $2 \overline{) 261}$

5) $9 \overline{) 457}$

6) $7 \overline{) 759}$

7) $5 \overline{) 401}$

8) $8 \overline{) 646}$

9) $2 \overline{) 141}$

10) $4 \overline{) 842}$

11) $4 \overline{) 362}$

12) $9 \overline{) 637}$

Answers

1. _____

2. _____

3. _____

4. _____

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8. _____

9. _____

10. _____

11. _____

12. _____



Solve each problem.

1) $\frac{1}{3} \div 9 =$

2) $\frac{1}{3} \div 7 =$

3) $\frac{1}{3} \div 3 =$

4) $\frac{1}{3} \div 2 =$

5) $\frac{1}{4} \div 3 =$

6) $\frac{1}{4} \div 4 =$

7) $\frac{1}{4} \div 4 =$

8) $\frac{1}{3} \div 4 =$

9) $\frac{1}{5} \div 5 =$

10) $\frac{1}{4} \div 5 =$

11) $\frac{1}{3} \div 7 =$

12) $\frac{1}{4} \div 6 =$

13) $\frac{1}{4} \div 2 =$

14) $\frac{1}{4} \div 4 =$

15) $\frac{1}{4} \div 7 =$

16) $\frac{1}{2} \div 7 =$

17) $\frac{1}{3} \div 8 =$

18) $\frac{1}{2} \div 5 =$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

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