

6th Grade Math Review Packet

Name: _____

To prevent a decline in math progress during the summer months, all students transitioning from 5th to 6th grade must complete the *6th Grade Math Review Packet*.

6th Grade Summer Math Expectations:

- **Students must show work on all their problems (even if the problem is multiple choice!)** Showing work is an expectation for 6th grade- it helps me see how you are thinking through each problem!
- **The whole packet must be completed.** Each skill on the packet is a review from 5th grade and is important to know moving forward to 6th grade!

This will count as the first grade for the year in math class. If it is not finished, you will lose 10 points every week it is past due. At the end of the first quarter, you will be given a zero if the project is not complete. Math work will be graded for content, not completion.

- You can receive partial credit for showing all your work/thoughts for a problem even if your answer is wrong!
- Khan Academy is a great resource to review any topics that you might have forgotten how to work out!

Categories:

- Place Value
- Order of Operations (PEMDAS)
 - Multiplication/Division
 - Decimals
 - Fractions
- Classifying quadrilaterals and triangles
 - Volume
- Measurement Conversions
 - Graphs/charts

6th Grade Math Review Packet

Place Value:

- 1) The most visitors to Yosemite National Park in one year are 4,190,557. What is the value of the digit 9 in this number?
A) 900,000
B) 90,000
C) 900
D) 90

- 2) Lani measured the length of a beetle in centimeters. The beetle is 3.45 centimeters long. What is the place value of the 4 in the length of the beetle?
_____ place

- 3) An airline had 9,453,607 passengers in September. It had fewer passages in November. Which could be the number of passengers in November?
A) 9,481,886
B) 9,545,647
C) 9,446,879
D) 9,504,903

- 4) Explain how you found your answer to #3. I knew that _____ was the correct choice because _____

Order of Operations:

- 5) What is the value of the expression? Show work below. $10 + 5 \times (9 - 7) = \underline{\quad}$

- 6) A pet store sold 8 hamsters for \$10 each and 8 mice for \$3 each. Write a math problem to represent the situation:

- 7) How much would you spend total if you bought 8 hamsters and 8 mice? \$ _____
Show your work below:

6th Grade Math Review Packet

Multiplication/Division:

- 8) A company assembles marble bags with 18 marbles in each bag. How many bags does the company need for 730 total marbles? _____ bags
- 9) A gym equally divided 330 towels so that each swimmer in a meet would get 4 towels. How many swimmers are at the meet? _____ swimmers
- 10) Cabins at a resort can sleep up to 48 guests. How many guests can 14 cabins sleep? _____ guests
- 11) A kite maker uses 125 feet of string for each kite he makes. How many feet of string does he need for 75 kites? Show your work below: _____ kites

Decimals:

- 12) Label the place value of each digit in this number: 17.45

1:

7:

4:

5:

- 13) Erin hiked 5.6 miles in the morning and 4.25 miles in the afternoon. How many miles did she hike in all? Show your work below. _____ miles

6th Grade Math Review Packet

14) The length of a robin's egg is 23.05 mm. The length of a wren's egg is 20.85 mm. How much longer is the robin's egg than the wren's egg? Show your work below: _____ mm

15) A walk-a-thon raises \$998.50. If 10 charities split the money equally, how much money will each charity receive? Show your work below: \$_____

16) Solve: $4.5 \times 1.3 =$ _____

Fractions:

17) $\frac{1}{4} + \frac{1}{2} =$ _____

18) $\frac{3}{5} + \frac{2}{10} =$ _____

19) $\frac{1}{2} \times 7 =$ _____

20) Casey feeds her pot-bellied pig $\frac{1}{2}$ cups of feed each day. How many cups of feed does her pig eat in 14 days? _____ cups

6th Grade Math Review Packet

21) $5/8 - 1/4 =$ _____

Shapes:

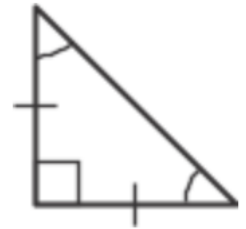
22) What are all the ways that this shape can be classified?

- A) Quadrilateral, parallelogram
- B) Quadrilateral, parallelogram, square, rectangle
- C) Quadrilateral, parallelogram, square, rhombus, rectangle
- D) Quadrilateral, parallelogram, rectangle



23) Which best describes the triangle?

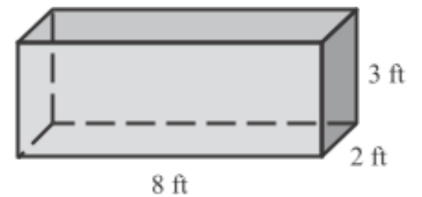
- A) Obtuse scalene
- B) Acute isosceles
- C) Right scalene
- D) Right isosceles



24) Two sides of a triangle are 24 inches each. The third side of the triangle is 18 inches long. What is the perimeter of the sign in feet? _____ ft.

Volume:

25) Audrey bought a cedar chest to store her sweaters. What is the volume of the cedar chest? _____ feet cubed



6th Grade Math Review Packet

Measurement:

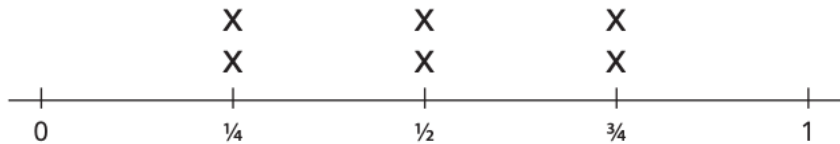
26) A grey whale's mass is about 85 kilograms. What is its mass in grams?
(There are 1,000 grams in 1 kilogram.)

27) The typical mass of a baby panda is about 4 ounces. How many baby pandas would make up 1 pound? (There are 16 oz. in a pound.)

28) A stop sign is 36 inches tall. How many feet tall is the stop sign?
(There are 12 inches in 1 foot.)

Graphs/Charts:

29) Jeff gathered data about several people who bought oranges at the grocery store. Two people bought $\frac{1}{4}$ pound of oranges, two people bought $\frac{1}{2}$ pound of oranges, and two people bought $\frac{3}{4}$ pound of oranges. Jeff made the line plot below & said that 6 pounds of oranges were purchased in all.



Is Jeff correct? Why or why not? _____

30) What did Jeff do wrong? How did he get his answer? _____

