

6th Grade Junior Varsity 2013 Practice Problems

- 1) $2^3 + 2^2 + 2^1 = ?$
- 2) If 50% of a number is 20, what is 75% of the number?
- 3) What is the prime factorization of 12?
- 4) A year's supply of Frisbees cost me \$48.72. What is my average monthly cost of Frisbees?
- 5) Polly was born on the 200th day of the year. In what month does her birthday fall?
- 6) I can mail up to 3 school yearbooks in one special shipping box. If I want to mail 22 school yearbooks in these special boxes, at least how many of these special boxes will I need?
- 7) What is the order of the following set of numbers from greatest to least?

$$\boxed{1\frac{1}{3}, \frac{2}{3}, -\frac{1}{3}, \frac{9}{5}}$$

- 8) The police are looking for a helicopter that took off from an airfield in central New Jersey. They know it only had enough fuel to travel 50 miles. What is the shape of the region they should search?
- 9) A car gets 24 miles per gallon of gasoline (mi/gal). How many gallons of gasoline would the car need to travel 144 miles?
- 10) A boy has 100 nickels, 100 dimes, and 100 quarters. He has how much money?

6th Grade Junior Varsity Practice Problem Answer Key

1. 14
2. 30
3. $2^2 \times 3$ or $2 \times 2 \times 3$
4. \$4.06
5. July
6. 8 boxes
7. $9/5$, $1 \frac{1}{3}$, $2/3$, $-1/3$
8. Circle
9. 6 gallons
10. \$40