Section 1: Number & Operations

Words to Know: Integer, Decimal, Multiplication, Division, Ratio, Percentage, Even, Odd, Whole Number, Quotient

Decimal Multiplication (A)

Find each product.

$$66.71 \\ \times 73.25$$

$$73.52 \\ \times 33.33$$

$$91.81 \\ \times 76.83$$

$$58.45 \\ \times 91.74$$

$$\begin{array}{r}
49.74 \\
\times 89.23
\end{array}$$

$$72.72 \\ \times 52.08$$

$$63.25 \\ \times 20.69$$

$$70.48 \\ \times 37.92$$

Dividing Decimals (A)

Find each quotient.

$$6.2\overline{)49.6}$$

Proportions

State if each pair of ratios forms a proportion.

1)
$$\frac{4}{2}$$
 and $\frac{20}{6}$

2)
$$\frac{3}{2}$$
 and $\frac{18}{8}$

3)
$$\frac{4}{3}$$
 and $\frac{16}{12}$

4)
$$\frac{4}{3}$$
 and $\frac{8}{6}$

5)
$$\frac{12}{24}$$
 and $\frac{3}{4}$

6)
$$\frac{6}{9}$$
 and $\frac{2}{3}$

Solve each proportion.

7)
$$\frac{10}{k} = \frac{8}{4}$$

8)
$$\frac{m}{10} = \frac{10}{3}$$

9)
$$\frac{2}{x} = \frac{7}{9}$$

10)
$$\frac{3}{x} = \frac{7}{10}$$

11)
$$\frac{4}{9} = \frac{2}{x}$$

12)
$$\frac{6}{a} = \frac{3}{8}$$

13)
$$\frac{8n}{8} = \frac{8}{3}$$

14)
$$\frac{7}{9} = \frac{a}{5}$$

15)
$$\frac{p}{8} = \frac{13}{2}$$

16)
$$\frac{3}{13} = \frac{v}{3}$$

17)
$$\frac{10}{12} = \frac{2}{n}$$

18)
$$\frac{11}{10} = \frac{r}{11}$$

19)
$$\frac{x}{9} = \frac{7}{14}$$

20)
$$\frac{a}{10} = \frac{11}{14}$$

$$21) \ \frac{v}{12} = \frac{10}{2}$$

22)
$$\frac{6}{14} = \frac{5}{n}$$

Percent Calculations (A)

Calculate the percent or value requested.

1. What is 93% of 600?

2. What percent of 825 is 627?

3. 6 is 15% of what amount?

4. 368 is 64% of what amount?

5. 3 is 1% of what amount?

6. What percent of 350 is 252?

7. What percent of 100 is 79?

8. What percent of 925 is 37?

9. 247 is 38% of what amount?

10. What is 78% of 550?

1	Name :	_ Score : _	
7	Teacher :	_ Date : _	
	Word Problem	S	
1	In one particular suburb, 50% of families own a terrier. If there are a families in this neighborhood that own a dog in general, then how materrier? Round your answer to the nearest whole number if necessar	any dog owners own a	
2	One baseball team won 24 games throughout their entire season. Of team won 80% of them. Given this, how many games in total did this Round your answer to the nearest whole number if necessary.	-	
3)	At a local department store, jeans are typically priced at \$30. Due to jeans are reduced to 20% of their original price. How much are jeans answer to the nearest whole number if necessary.	·	
4)	Sara went to her local zoo that featured 18 canine exhibits. If the zoo exhibits in total, then what percent of the zoo's exhibits feature canine answer to the nearest whole number if necessary.		
5)	Keith decided to look at new and used SUVs. Keith found a used SUV found that he paid 50% of the price of a new SUV. How much would your answer to the nearest whole number if necessary.		Pero annual de linea escalaren de escalaren es
6)	At a construction job for a museum there are 15 painters. Of these parapaint the interior of the museum. How many painters are painting the answer to the nearest whole number if necessary.		Proprietarione
7)	There are 20 students in a class and 15 of these students passed the What percentage of these students passed their test? Round your an whole number if necessary.	-	<u>,</u>
8)	While mining, Fred found a large metal bar that weighed 20 grams. F determine that the bar had 12 grams of lead. What percent of the weilead? Round your answer to the nearest whole number if necessary.		
9)	For one Biology test, Joan correctly answered 34 questions. These contains a percent score of 85%. In total, how many questions were on this your answer to the nearest whole number if necessary.	_	
10)	Benny has to spend \$14000 on expenses each year. If that amount o salary, then how much money does Benny make working as an admit your answer to the pagrest whole number if necessary	•	





Exponents in Factor Form (A)

Write each exponent in factor form.

Exponent

$$5^{\stackrel{\checkmark}{6}} = 5 \times 5 \times 5 \times 5 \times 5 \times 5 \circ \bigcirc$$

Multiply 5 (the base) by itself 6 (the exponent) times.

Base $6^{10} =$

 9^4

$$8^3 =$$

$$7^{11} =$$

$$8^6 =$$

$$3^{11} =$$

$$7^7 =$$

1	lame :	Score :	
7	eacher:	Date :	
	Word Probler	ns	
1)	Some number was added to 5.9. This sum was then divided by multiplied by 4. The product was 4. What was the number?	0.7. Finally, the quotient was	
2)	8 was added to some number. This sum was then multiplied by then divided by 2 for a result of -1. Given this, what was the initi	·	
3)	Some number was divided by 5.8. After which, the quotient is as sum is multiplied by 3, which resulted in 13.5. Given this product	•	
4)	7 was multiplied by a particular number. Then, 2.2 was divided in 11.8 was added to this quotient, giving 32.8. State the initial number.		
5)	A certain number was multiplied by 4. Then, this product was div was subtracted from this quotient, resulting in a difference of -24	•	
6)	A particular number was divided by 0.4 and then 2.5 was taken a Finally, this difference was multiplied by 2. Given the product was	· ·	
7)	6 was divided into a particular number. This quotient was then m was taken from that product. If the previous operation resulted in	•	
8)	First, 114.3 was divided by some number. The resulting quotient Following this, 6.3 was subtracted from the product, giving 20.7.	, ,	
9)	110 was divided by a particular number, then 14 was taken from this difference was multiplied by 8. Giving a product of -32. Find	•	
10)	Some number was divided into 195. This quotient was then mult resulting product was added to 9. Given this sum totalled to -95,	•	

