Decimal Multiplication (A) Answers

Find each product.

$$\begin{array}{r} 66.71 \\ \times 73.25 \\ \hline 4886.5075 \end{array}$$

$$\begin{array}{r} 73.52 \\ \times 33.33 \\ \hline 2450.4216 \end{array}$$

$$\begin{array}{r} 91.81 \\ \times 76.83 \\ \hline 7053.7623 \end{array}$$

$$\begin{array}{r} 58.45 \\ \times 91.74 \\ \hline 5362.2030 \end{array}$$

$$\begin{array}{r} 49.74 \\ \times 89.23 \\ \hline 4438.3002 \end{array}$$

$$\begin{array}{r} 72.72 \\ \times 52.08 \\ \hline 3787.2576 \end{array}$$

$$\begin{array}{r} 63.25 \\ \times 20.69 \\ \hline 1308.6425 \end{array}$$

$$\begin{array}{r} 70.48 \\ \times 37.92 \\ \hline 2672.6016 \end{array}$$

Dividing Decimals (A) Answers

Find each quotient.

$$3.9 \overline{)\ 38.22} \qquad 7.6 \overline{)\ 34.2} \qquad 5.4 \overline{)\ 11.88} \qquad 9.3 \overline{)\ 58.59}$$

Whole number divisors and quotients:

$$9.8 \atop 39 \overline{)\ 382.2} \qquad\qquad 4.5 \atop 76 \overline{)\ 342} \qquad\qquad 2.2 \atop 54 \overline{)\ 118.8} \qquad\qquad 6.3 \atop 93 \overline{)\ 585.9}$$

$$1.6 \overline{)\ 8.96} \qquad 9.2 \overline{)\ 77.28} \qquad 5.9 \overline{)\ 35.4} \qquad 7.6 \overline{)\ 69.92}$$

Whole number divisors and quotients:

$$5.6 \atop 16 \overline{)\ 89.6} \qquad\qquad 8.4 \atop 92 \overline{)\ 772.8} \qquad\qquad 6 \atop 59 \overline{)\ 354} \qquad\qquad 9.2 \atop 76 \overline{)\ 699.2}$$

$$6.9 \overline{)\ 58.65} \qquad 6.2 \overline{)\ 49.6} \qquad 1.7 \overline{)\ 16.83} \qquad 7.1 \overline{)\ 12.07}$$

Whole number divisors and quotients:

$$8.5 \atop 69 \overline{)\ 586.5} \qquad\qquad 8 \atop 62 \overline{)\ 496} \qquad\qquad 9.9 \atop 17 \overline{)\ 168.3} \qquad\qquad 1.7 \atop 71 \overline{)\ 120.7}$$

Name_____

Proportions

Date_____ Period_____

State if each pair of ratios forms a proportion.

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

No

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

No

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

Yes

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

Yes

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

No

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

Yes

Solve each proportion.

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

$\{5\}$

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

$\{33.33\}$

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

$\{2.57\}$

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

$\{4.28\}$

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

{4.5}

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

{16}

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

{2.66}

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

{3.88}

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

{52}

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

{0.69}

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

{2.4}

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

{12.1}

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

{4.5}

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

{7.85}

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

{60}

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

{11.66}

Percent Calculations (A) Answers

Calculate the percent or value requested.

1. What is 93% of 600?

558

2. What percent of 825 is 627?

76%

3. 6 is 15% of what amount?

40

4. 368 is 64% of what amount?

575

5. 3 is 1% of what amount?

300

6. What percent of 350 is 252?

72%

7. What percent of 100 is 79?

79%

8. What percent of 925 is 37?

4%

9. 247 is 38% of what amount?

650

10. What is 78% of 550?

429

Word Problems

1) In one particular suburb, 50% of families own a terrier. If there are a total of 24 families in this neighborhood that own a dog in general, then how many dog owners own a terrier? Round your answer to the nearest whole number if necessary.

12 owners
_____

2) One baseball team won 24 games throughout their entire season. Of all their games, this team won 80% of them. Given this, how many games in total did this baseball team play? Round your answer to the nearest whole number if necessary.

30 games
_____

3) At a local department store, jeans are typically priced at $30. Due to a special, the jeans are reduced to 20% of their original price. How much are jeans now? Round your answer to the nearest whole number if necessary.

$6
_____

4) Sara went to her local zoo that featured 18 canine exhibits. If the zoo features 45 exhibits in total, then what percent of the zoo's exhibits feature canines? Round your answer to the nearest whole number if necessary.

40%
_____

5) Keith decided to look at new and used SUVs. Keith found a used SUV for $12000. Keith found that he paid 50% of the price of a new SUV. How much would a new SUV cost? Round your answer to the nearest whole number if necessary.

$24000
_____

6) At a construction job for a museum there are 15 painters. Of these painters, 60% of them paint the interior of the museum. How many painters are painting the interior? Round your answer to the nearest whole number if necessary.

9 painters
_____

7) There are 20 students in a class and 15 of these students passed their Geometry test. What percentage of these students passed their test? Round your answer to the nearest whole number if necessary.

75%
_____

8) While mining, Fred found a large metal bar that weighed 20 grams. Fred was also able to determine that the bar had 12 grams of lead. What percent of the weight of the bar was lead? Round your answer to the nearest whole number if necessary.

60%
_____

9) For one Biology test, Joan correctly answered 34 questions. These correct answers gave him a percent score of 85%. In total, how many questions were on this Biology test? Round your answer to the nearest whole number if necessary.

40 questions
_____

10) Benny has to spend $14000 on expenses each year. If that amount of money is 70% of his salary, then how much money does Benny make working as an administrator per year? Round your answer to the nearest whole number if necessary.

$20000
_____

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Exponents in Factor Form (A) Answers

Write each exponent in expanded form.

5^6 = 5 × 5 × 5 × 5 × 5 × 5

6^{10} = 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6 × 6

9^4 = 9 × 9 × 9 × 9

8^3 = 8 × 8 × 8

7^{11} = 7 × 7 × 7 × 7 × 7 × 7 × 7 × 7 × 7 × 7 × 7

8^7 = 8 × 8 × 8 × 8 × 8 × 8 × 8

1^{11} = 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1

8^6 = 8 × 8 × 8 × 8 × 8 × 8

3^{11} = 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3 × 3

7^7 = 7 × 7 × 7 × 7 × 7 × 7 × 7

Word Problems

1) Some number was added to 5.9. This sum was then divided by 0.7. Finally, the quotient was **-5.2** multiplied by 4. The product was 4. What was the number?

2) 8 was added to some number. This sum was then multiplied by 2, and that product was **-9** then divided by 2 for a result of -1. Given this, what was the initial number?

3) Some number was divided by 5.8. After which, the quotient is added to 5.5. Next, the **-5.8** sum is multiplied by 3, which resulted in 13.5. Given this product, find the initial number.

4) 7 was multiplied by a particular number. Then, 2.2 was divided into the product. Finally, **6.6** 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 divided by 2. Finally, 6 **-9** was subtracted from this quotient, resulting in a difference of -24. What was this number?

6) A particular number was divided by 0.4 and then 2.5 was taken away from that quotient. **13.6** Finally, this difference was multiplied by 2. Given the product was 63, what was that number?

7) 6 was divided into a particular number. This quotient was then multiplied by 2, and 13 **6** was taken from that product. If the previous operation resulted in -11, find the initial number.

8) First, 114.3 was divided by some number. The resulting quotient was then multiplied by 3. **12.7** Following this, 6.3 was subtracted from the product, giving 20.7. What was the initial divisor?

9) 110 was divided by a particular number, then 14 was taken from the quotient. Afterwards, **11** this difference was multiplied by 8. Giving a product of -32. Find the particular number.

10) Some number was divided into 195. This quotient was then multiplied by 8, after which the **-15** resulting product was added to 9. Given this sum totalled to -95, find the initial number.

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