

Answer Key

Topic 6 Study Schedule

Wednesday, December 6th: Dividing decimals by 10, 100, or 1,000

Use mental math to find each quotient.

1. $34.6 \div 10^1 = 3.46$

2. $6,483 \div 10^2 = 64.83$

3. $148.3 \div 100 = 1.483$

4. $29.9 \div 10^1 = 2.99$

5. $70.7 \div 10 = 7.07$

6. $5,913 \div 10^3 = 5.913$

Thursday, December 7th: Decimal Remainders

$$\begin{array}{r} \times 4.5 \\ 32 \overline{) 144.0} \\ \underline{128} \\ 160 \\ \underline{160} \\ 0 \end{array}$$

$$\begin{array}{r} \times 9.5 \\ 42 \overline{) 399.0} \\ \underline{378} \\ 210 \\ \underline{210} \\ 0 \end{array}$$

$$\begin{array}{r} 2.25 \\ 4 \overline{) 9.00} \\ \underline{8} \\ 10 \\ \underline{0} \\ 10 \\ \underline{8} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} 11.25 \\ 4 \overline{) 45.00} \\ \underline{4} \\ 05 \\ \underline{4} \\ 10 \\ \underline{8} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} 7.25 \\ 4 \overline{) 29.00} \\ \underline{28} \\ 10 \\ \underline{8} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} \times 45.25 \\ 88 \overline{) 3982.00} \\ \underline{352} \\ 462 \\ \underline{440} \\ 220 \\ \underline{176} \\ 440 \\ \underline{440} \\ 0 \end{array}$$

Friday, December 8th: Dividing a decimal by a whole number

1. $6.58 \div 7$

$$\begin{array}{r} \times 0.94 \\ 7 \overline{) 6.58} \\ \underline{63} \\ 28 \\ \underline{28} \\ 0 \end{array}$$

2. $156 \div 8$

$$\begin{array}{r} \times 19.5 \\ 8 \overline{) 156.0} \\ \underline{8} \\ 76 \\ \underline{72} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

3. $34.2 \div 3$

$$\begin{array}{r} 11.4 \\ 3 \overline{) 34.2} \\ \underline{3} \\ 04 \\ \underline{03} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

4. $5.84 \div 4$

$$\begin{array}{r} 1.46 \\ 4 \overline{) 5.84} \\ \underline{4} \\ 18 \\ \underline{16} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

5. Michelle pays \$66.85 for a costume pattern and 8 yards of fabric. The costume pattern costs \$4.85. How much does each yard of the fabric cost?

Each yard of fabric costs \$7.75

$$\begin{array}{r} 66.85 \\ - 4.85 \\ \hline 62.00 \end{array}$$

$$\begin{array}{r} \times 7.75 \\ 8 \overline{) 62.00} \\ \underline{56} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

Saturday and Sunday, December 9 and 10th: Dividing by a decimal

$$\begin{array}{r} \times 300. \\ 0.06 \overline{) 18.00} \\ \underline{18} \\ 00 \\ \underline{00} \\ 00 \\ \underline{00} \\ 0 \end{array}$$

$11 \div 0.25$

$$\begin{array}{r} \times 44. \\ 25 \overline{) 1100.} \\ \underline{100} \\ 100 \\ \underline{100} \\ 100 \\ \underline{100} \\ 0 \end{array}$$

$756 \div 0.70$

$$\begin{array}{r} \times 1080. \\ 70 \overline{) 75600.} \\ \underline{70} \\ 56 \\ \underline{0} \\ 560 \\ \underline{560} \\ 00 \\ \underline{00} \\ 0 \end{array}$$

$143 \div 0.22$

$$\begin{array}{r} \times 650. \\ 22 \overline{) 14300.} \\ \underline{132} \\ 110 \\ \underline{110} \\ 00 \\ \underline{00} \\ 0 \end{array}$$

Monday, December 11th: Dividing two decimals

$$\begin{array}{r} \times 9.8 \\ 3.9 \overline{) 38.22} \\ \underline{351} \\ -312 \\ \hline 312 \\ \underline{312} \\ \hline 0 \end{array}$$

$$\begin{array}{r} \times 4.5 \\ 7.6 \overline{) 342.0} \\ \underline{304} \\ -380 \\ \hline 380 \\ \underline{380} \\ \hline 0 \end{array}$$

$$\begin{array}{r} \times 2.2 \\ 5.4 \overline{) 11.88} \\ \underline{108} \\ -108 \\ \hline 0 \end{array}$$

$$\begin{array}{r} \times 6.3 \\ 9.3 \overline{) 58.59} \\ \underline{558} \\ -279 \\ \hline 279 \\ \underline{279} \\ \hline 0 \end{array}$$

Tuesday, December 12th: Problem Solving

A 12-pack of Cokes costs \$5.40. How much does each Coke cost?

Each Coke costs \$0.45

$$\begin{array}{r} \times 0.45 \\ 12 \overline{) 5.40} \\ \underline{48} \\ -60 \\ \hline 60 \\ \underline{60} \\ \hline 0 \end{array}$$

Mrs. Henry purchased 14 gallons of gas for \$34.72. How much did each gallon cost?

$$\begin{array}{r} \times 2.48 \\ 14 \overline{) 34.72} \\ \underline{28} \\ -67 \\ \hline 112 \\ \underline{112} \\ \hline 0 \end{array}$$

Each gallon of gas costs \$2.48

It took Mr. Phillips 1.6 hours to run the 13.2 miles. What was his average speed?

Phillip's average speed was

8.25 miles.

$$\begin{array}{r} \times 8.25 \\ 1.6 \overline{) 13.200} \\ \underline{128} \\ -40 \\ \hline 320 \\ \underline{320} \\ \hline 0 \end{array}$$

How many nickels are in \$24.00?

$$\begin{array}{r} \times 480 \\ 0.05 \overline{) 24.00} \\ \underline{20} \\ -40 \\ \hline 400 \\ \underline{400} \\ \hline 0 \end{array}$$

There are 480 nickels in \$24.00

Jason spent \$20.00 for school lunches. If each lunch of \$2.50, how many lunches did he buy?

$$\begin{array}{r} 8 \\ 2.50 \overline{) 20.00} \\ \underline{2000} \\ \hline 0 \end{array}$$

Jason bought 8 lunches.