

Math 6 Unit 5
Arithmetic in Base Ten
Additional Practice Problems

Name: _____ Date: _____ Core: _____

<p>1. Movies cost \$10.25 per ticket, popcorn costs \$4.99, and candy bars costs \$3.50. How much would it cost for 3 people to go the movies and each person will get 1 popcorn and 1 candy bar?</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $\begin{array}{r} \times 10.25 \\ 3 \\ \hline 30.75 \end{array}$ <p>tickets</p> </div> <div style="text-align: center;"> $\begin{array}{r} \times 4.99 \\ 3 \\ \hline 14.97 \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} \times 3.50 \\ 3 \\ \hline 10.50 \end{array}$ </div> </div> <div style="text-align: center; margin-top: 10px;"> $\begin{array}{r} +2 +2 +1 \\ 30.75 \\ 14.97 \\ 10.50 \\ \hline 56.32 \end{array}$ <p><u>\$56.32</u></p> </div>	<p>2.) $6 - 0.45$</p> <div style="text-align: center;"> $\begin{array}{r} 5 \quad 9 \quad 10 \\ 6.00 \\ - 0.45 \\ \hline 5.55 \end{array}$ <p>← ADD zeros in blanks</p> </div>
<p>3.) $0.005 + 0.2$</p> <div style="text-align: center;"> $\begin{array}{r} 0.005 \\ 0.200 \\ \hline 0.205 \end{array}$ </div>	<p>4.) $8 - 0.14$</p> <div style="text-align: center;"> $\begin{array}{r} 7 \quad 9 \quad 10 \\ 8.00 \\ - 0.14 \\ \hline 7.86 \end{array}$ </div> <div style="text-align: center; margin-top: 10px;"> $\begin{array}{r} 1 \quad 1 \\ 7.86 \\ + .14 \\ \hline 8.00 \end{array}$ <p>← ✓</p> </div> <p style="text-align: right;">ADD these two to check for right answer</p>
<p>5.) $5.2 (3)$ ← multiply</p> <div style="text-align: center;"> $\begin{array}{r} \times 5.2 \\ 3 \\ \hline 15.6 \end{array}$ </div>	<p>6.) $7.1 (4.08)$</p> <div style="text-align: center;"> $\begin{array}{r} \times 4.08 \\ 7.1 \\ \hline 408 \\ 28560 \\ \hline 28968 \end{array}$ </div>

Count digits to right of decimal. Move decimal that many times.

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7.) $6 \div 12$

$$\begin{array}{r} 0.5 \\ 12 \overline{) 6.0} \\ \underline{-0} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

8.) $00.654 \div 0.3$

$$\begin{array}{r} 2.18 \\ 0.3 \overline{) 00.654} \\ \underline{-6} \\ 05 \\ \underline{-3} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

9.) $159.4 \div 0.002$

$$\begin{array}{r} 79700. \\ 002 \overline{) 159400.} \\ \underline{-14} \\ 19 \\ \underline{-18} \\ 14 \\ \underline{-14} \\ 00 \end{array}$$

10. Sal worked as a computer coder for \$35.15 per hour. He worked 6 hours per day for 10 days. How much did Sal earn?

$$\begin{array}{r} 35.15 \\ \times 6 \\ \hline 210.90 \\ \times 10 \\ \hline 00000 \\ 210900 \end{array}$$

\$2109.00

11. Jada and Tim together have \$32.56. Jada has \$ 21.80. How much did Tim have?

$$\begin{array}{r} 115 \\ - 32.56 \\ - 21.80 \\ \hline 10.76 \end{array}$$

a.) \$10.76
b.) \$54.36
c.) \$1.76
d.) \$30.38

12. If Sally gets paid \$8.25 each hour she works and she works 6.5 hours. How much did she earn?

$$\begin{array}{r} 13 \\ - 8.25 \\ \times 6.5 \\ \hline 14125 \\ 49500 \\ \hline 53625 \end{array}$$

← round up

53.63

a.) \$53.71
b.) \$1.75
c.) \$53.63
d.) \$14.75

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13. Marcus ran a 13.1 mile race ($\frac{1}{2}$ marathon) in 91.7 minutes. How fast did he run each mile?

$$\begin{array}{r} 13 \downarrow \overline{) 91.7} \\ \underline{-91.7} \\ 0 \end{array}$$

- a.) 0.14 min per mile
b.) 7 min per mile
c.) 104.8 min per mil
d.) 9 min per mil

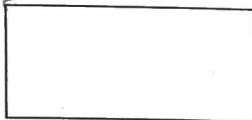
14. Jennifer filled her car with gas. Gas cost \$2.83 per gallon. She pumped 10.8 gallons. What was her total cost?

$$\begin{array}{r} \overline{) 283} \\ \underline{-108} \\ 2264 \\ \overline{) 2264} \\ \underline{-1000} \\ 1264 \\ \overline{) 1264} \\ \underline{-1000} \\ 264 \\ \overline{) 264} \\ \underline{-200} \\ 64 \\ \overline{) 64} \\ \underline{-60} \\ 4 \end{array}$$

- a.) \$33.42
b.) \$30.08
c.) \$32.48
d.) \$30.56

30.56

15. Jack needs to create a string border around the following poster. How much string does he need?



13.1 in

5.25 in

$$\begin{array}{r} 1 \\ 13.1 \\ 13.1 \\ \underline{5.25} \\ \underline{5.25} \\ 36.70 \end{array}$$

- a.) 36.7 in
b.) 13.17 in
c.) 18.35 in
d.) 65.6 in

16. It takes Diego 77 minutes to complete 3.5 assignments. Determine his average rate of work completion speed.

$$\begin{array}{r} \overline{) 770} \\ \underline{-70} \\ 70 \\ \overline{) 70} \\ \underline{-70} \\ 0 \end{array}$$

- a.) 22 min per assignment
b.) 0.045 min per assignment
c.) 25 min per assignment
d.) 2.7 min per assignment

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17. When purchasing a sweater for \$49.99 you also need to pay \$3.50 sales tax. What is the total amount paid for the sweater?

$$\begin{array}{r} 49.99 \\ + 3.50 \\ \hline 53.49 \end{array}$$

- a.) \$46.49
- b.) \$49.64
- c.) \$53.49
- d.) \$50.34

18. If you pay a \$15.34 bill with \$20. How much change will you receive back?

$$\begin{array}{r} 19.90 \\ - 20.00 \\ \hline 15.34 \\ \hline 04.66 \end{array}$$

- a.) \$15.14
- b.) \$15.26
- c.) \$5.76
- d.) \$4.66

19. A bookshelf is 16.5 inch long. If each book is 2.5 in wide, how many books can fit on the shelf?

$$\begin{array}{r} 6.6 \\ 2.5 \overline{) 16.50} \\ \underline{-150} \\ 150 \\ \underline{-150} \\ 0 \\ \hline 150 \end{array}$$

- a.) 5
- b.) 6
- c.) 7
- d.) 8

★ CANT FIT 7 BOOKS

20. Sally needs to earn 90% of the 75 points to reach her goal. How many points is that?

$$\begin{array}{r} 4 \\ 75 \\ \times 90 \\ \hline 00 \\ 6750 \\ \hline 6750 \end{array}$$

- a.) 7.5
- b.) 6.75
- c.) 67.5
- d.) 71