

Name: _____

Math Review: Unit 4

1. Rewrite each number in standard form.

- a) 3.6 million b) $6\frac{3}{4}$ billion c) $\frac{1}{2}$ million
- 3 600 000 6 750 000 000 500 000

2. Use decimals. Round each number to the nearest hundredth of a million.

- a) 16 284 371 b) 1 906 242 c) 47 072 148
- 16.28 million 1.91 million 47.07 million

3. Write each number as a decimal.

- a) $\frac{291}{1000}$ b) $4\frac{173}{1000}$ c) $6\frac{8}{1000}$
- 0.291 4.173 6.008

4. Write each decimal as a fraction or a mixed number.

- a) 0.436 b) 5.016 c) 13.004
- $\frac{436}{1000}$ $5\frac{16}{1000}$ $13\frac{4}{1000}$

5. Use >, <, or =.

- a) $2.537 < 2.58$ b) $0.607 > 0.601$
c) $1.42 > 1.413$ d) $2.6 = 2.600$

6. Order the numbers from greatest to least.

- a) 0.439, 1.004, 0.37 1.004, 0.439, 0.37
b) 2.83, 1.9, 0.297 2.83 1.9, 0.297
c) 6.237, 6.019, 6.28 6.28 6.237, 6.019
d) 3.105, 3.6, 5.12 5.12, 3.6, 3.105

7. Write a number between 2.358 and 2.361.

Answers will vary

8. Round to the nearest whole number.

- a) 3.764 b) 0.635 c) 7.014 d) 2.535

9. Round to the nearest tenth.

- a) 8.64 b) 7.235 c) 0.062 d) 7.317

10. Round to the nearest hundredth.

- a) 3.456 b) 7.318 c) 6.994 d) 33.333

11. Estimate each sum.

- a) $8.1 + 7.2$ b) $6.51 + 4.03$ c) $7.358 + 2.71$

Example answers only

- 15 10.5 9.358

12. Estimate each difference.

- a) $26.18 - 20.92$ b) $5.384 - 2.111$ c) $8.43 - 2.251$

Example answers only

- 5 3.384 6.1

13. Add.

- a) $\begin{array}{r} 1.685 \\ + 4.937 \\ \hline \end{array}$ b) $\begin{array}{r} 5.148 \\ + 3.227 \\ \hline \end{array}$ c) $\begin{array}{r} 0.387 \\ + 4.996 \\ \hline \end{array}$ d) $\begin{array}{r} 51.239 \\ + 8.468 \\ \hline \end{array}$

- 6.622 8.375 5.383 59.707

14. Subtract.

- a) $\begin{array}{r} 13.352 \\ - 7.166 \\ \hline \end{array}$ b) $\begin{array}{r} 5.891 \\ - 1.309 \\ \hline \end{array}$ c) $\begin{array}{r} 11.026 \\ - 6.382 \\ \hline \end{array}$ d) $\begin{array}{r} 9.405 \\ - 3.881 \\ \hline \end{array}$

- 6.186 4.582 4.644 5.524

15. Write vertically, then add or subtract.

a) $6.941 - 2.34$

4.601

b) $3.85 + 7.206$

11.056

c) $1.456 + 0.937$

2.393

16. Use mental math to find each product.

a) $5.63 \times 10 = 56.3$

b) $7.851 \times 10\,000 = 78\,510$

c) $0.682 \times 100 = 68.2$

d) $59.04 \times 1000 = 59\,040$

17. A certain seed has a mass of 0.763 g.

What is the total mass of 10 of these seeds? 100 seeds?

1000 seeds? 10 000 seeds?

$0.763 \times 10 = 7.63$ $0.763 \times 100 = 76.3$ $0.763 \times 1000 = 763$

$0.763 \times 10\,000 = 7630$

18. One thousand new pennies have a mass of 2350 g.

What is the mass of one penny?

$2350 \div 1000 = 2.35$

19. Use mental math.

a) $5 \times 0.1 = 0.5$
 $5 \div 10$

b) $16 \times 0.01 = 0.16$
 $16 \div 100$

c) $127 \times 0.001 = 0.127$
 $127 \div 1000$

20. Multiply.

a)
$$\begin{array}{r} 5.04 \\ \times 7 \\ \hline \end{array}$$

 35.28

b)
$$\begin{array}{r} 6.384 \\ \times 2 \\ \hline \end{array}$$

 12.768

c)
$$\begin{array}{r} 17.009 \\ \times 6 \\ \hline \end{array}$$

 102.054

$$\begin{array}{r} \text{d) } \$17.35 \\ \times \quad 8 \\ \hline \end{array}$$

138.80

$$\begin{array}{r} \text{e) } 1.257 \\ \times \quad 3 \\ \hline \end{array}$$

3.771

$$\begin{array}{r} \text{f) } 0.738 \\ \times \quad 9 \\ \hline \end{array}$$

6.642

21. Estimate first. Then divide until the remainder is 0.

a) $3.589 \div 2$

Estimate: 2
Actual 1.7945

b) $18 \div 4$

E: 4
A: 4.5

c) $2.768 \div 5$

E: 0.5
A: 0.5536

22. Divide. Round each quotient to the same number of decimal places as there are in the dividend.

a) $3.189 \div 2$

A: 1.5945
R: 1.595

b) $5.1 \div 9$

A: 0.566666
R: 0.6

c) $\$2.05 \div 2$

A: \$1.025
R: \$1.03

23. Each minivan holds 9 people.
How many minivans are needed for 76 people?

$76 \div 9 = 8.4444$ (repeating decimal)

9 vans in total would be needed.