1.2 Decimal Operations

Math 9 1.2 Rational Numbers in Decimal Form Name: _____

For each question, decide whether the answer is positive or negative. Then calculate the answer.

$2.65 + (-3.81) =$ − 1.16

2.65 − 3.81

$-4.38 + (-5.12) =$ − 9.5

-4.38 − 5.12

7 11
3.81
-2.65
1.16

4.38
5.12
9.50

$-5.96 - (-6.83) =$ + 0.87

-5.96 + 6.83

$6.21 - (-6.84) =$ 13.05

6.21 + 6.84

5 17 13
6.83
-5.96
0.87

6.21
6.84
13.05

For each question, decide whether the answer is positive or negative and estimate the answer. Then use a calculator to determine the exact answer.

$9.49 \times 5.08 =$ + 48.2092

9 x 5 = 45
10 x 5 = 50
} answer is between these values

$-0.86 \div -0.42 =$ 2.047619

-0.84 ÷ -0.42 = 2
answer is greater than 2

$2.4 \div -1.4 =$ − 1.714285

2.8 ÷ -1.4 = -2
↑ since this is greater than 2.4, answer should be smaller

$-2.52 \times 7.07 =$ −17.8164

-2 x 7 = -14
-3 x 7 = -21

$-2.5(2.5) =$ − 6.25

-2(2.5) = -5
-3(2.5) = -7.5

$12.4 \div -2.9 =$ − 4.275862069...

12 ÷ -3 = -4

Practise:

1. Without using a calculator, predict whether the answer is a positive or a negative value. Then use a calculator to determine the answer.

a) $0.98 + (-2.91) =$ b) $5.46 - 3.16 =$ c) $-4.23 + (-5.75) =$

2. Decide whether the answer is a positive or a negative value and estimate the answer. Then use a calculator to determine the exact answer.

a) $2.7 \times (-3.2) =$ b) $-4.37 \div (-0.095) =$ c) $-2.4(-1.5) =$

d) $-5.3(4.2) =$ e) $19.5 \div (-16.2) =$ f) $-1.91 \times (-0.51) =$

3. A submarine is cruising at a depth of 153 m. It then rises at 4.5 m/min for 15 min.

a) What is the submarine's depth at the end of the 15 ~~m~~ min?

b) If the submarine continues to rise at the same rate, how much longer will it take to reach the surface?