## Feb 8, 2019

- 1) Significant Digits cont
  - Answers to HW #25-30
  - +/- and x/÷ with SD

#### Warm-Up

Round each of the following to 2SD

1) 23456789

23000000

2) 0.0245

0.025

3) 28.567

29

4) 12345

12000

Rounding: Round each of the following to 3 and 4 SD

120

36D

	30D	70D
05) 2 1/1/50	2 11	2 11

#### **Addition and Subtraction**

Add or subtract the numbers as usual, then you round the answer to the same number of decimal places as the value with the fewest decimal places.

i.e. if given 3 distances and asked to find the total distance

The lowest number of decimal places is none, therefore the answer is 121km.

### Try a few

Record each of these in your notebook and determine the answer and write it in the correct number of significant digits.

1) 
$$12.54 + 8.56 + 9 = \frac{\text{answer using SD}}{\text{kandReveal-C}}$$

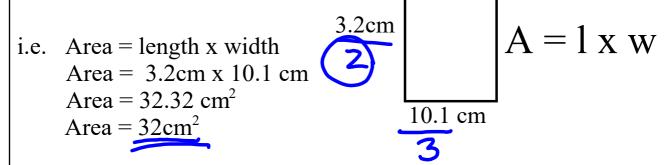
calculator

correct answer

2) 
$$3.1 \text{km} + 2.45 \text{km} + 2.195 \text{km}$$
 kandReverickandRevea ircle

#### **Multiplying and Dividing**

Multiply or divide as usual, then round the answer to have the same significant digits as the measurement with the fewest significant digits.



The correct way to write this would be 32 cm<sup>2</sup> because two significant figures is the lowest number in the question.

### Try a few

Record each of these in your notebook and determine the answer and write it in the correct number of significant digits.

calculator correct answer answer using SD

- 1)  $1.23 \text{ m x } 0.89 \text{ m} = \frac{\text{kandReveal-Rect}}{\text{le}}$
- ckandReveal-Rect gle
- 3)  $452 \text{ m} \div 5\text{s} = \text{candReveal-Rect}$

kandReveal-Rect

# Significant Digits Worksheet #13-24