

# Pima Medical Institute

## Math Self-Help Guide

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### Terms and Skills Review

### Notes

*Add:*        25  
                  36  
                  + 72

\_\_\_\_\_

*Subtract:*    1,362  
                  - 523

\_\_\_\_\_

*Multiply:*    18  
                  x 4

\_\_\_\_\_

*Divide:*       732 ÷ 3

\_\_\_\_\_

### Order of Operation

(       )

\_\_\_\_\_

$23 - (3 + 6) + 4$

$15 + (9 - 7) - 3$

### Rounding

*Rule:*        *Less than 5* \_\_\_\_\_

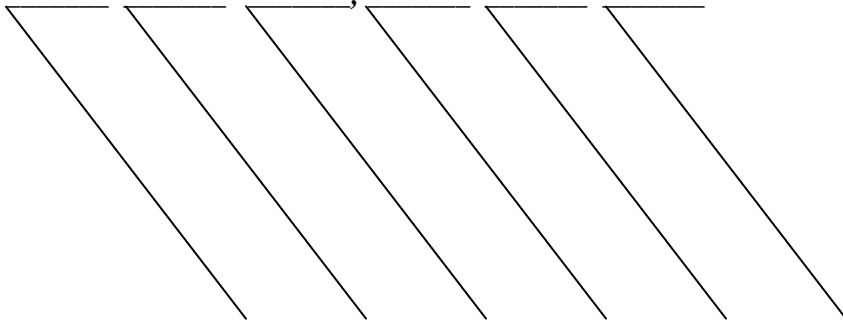
*5 or more* \_\_\_\_\_!

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*Place Value:*

Notes



*Round to the Hundreds:*

1,312 \_\_\_\_\_      158 \_\_\_\_\_      26,387 \_\_\_\_\_

*Round to the Thousands:*

2,681 \_\_\_\_\_      1,920 \_\_\_\_\_      38,527 \_\_\_\_\_

Averages

1) \_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

*Test Scores to Average:*

72, 80, 93, 97, 78

83, 94, 76, 98, 89

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### Fractions:

### Notes

$$\frac{3}{4} \quad \begin{array}{l} \text{_____} \\ \text{_____} \end{array} \quad \begin{array}{l} \text{(part)} \\ \text{(whole)} \end{array}$$

### *Equivalent Fractions*

$$\frac{3}{6} = \frac{\quad}{24} \quad \frac{2}{5} = \frac{\quad}{15} \quad \frac{7}{21} = \frac{\quad}{63}$$

### *Simplify Fractions*

$$\frac{10}{15} = \quad \quad \frac{12}{36} =$$

$$\frac{24}{32} = \quad \quad \frac{18}{24} =$$

### *Improper Fractions*

$$\frac{5}{2} =$$

$$\frac{12}{5} = \quad \quad \frac{7}{3} =$$

$$\frac{17}{4} = \quad \quad \frac{21}{9} =$$

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### Notes

#### *Ordering Fractions From Smallest to Greatest*

$$\frac{2}{3} \quad \frac{1}{6} \quad \frac{1}{2}$$

$$\frac{2}{3} =$$

$$\frac{1}{6} =$$

$$\frac{1}{2} =$$

$$\frac{3}{4} \quad \frac{2}{8} \quad \frac{1}{3}$$

$$\frac{5}{6} \quad \frac{3}{5} \quad \frac{2}{3}$$

$$\frac{3}{4} =$$

$$\frac{5}{6}$$

$$\frac{2}{8} =$$

$$\frac{3}{5}$$

$$\frac{1}{3} =$$

$$\frac{2}{3}$$

#### *Adding Fractions*

$$\frac{3}{8} + \frac{1}{8} =$$

$$\frac{6}{10} + \frac{5}{10} =$$

$$\frac{7}{9} + \frac{1}{9} =$$

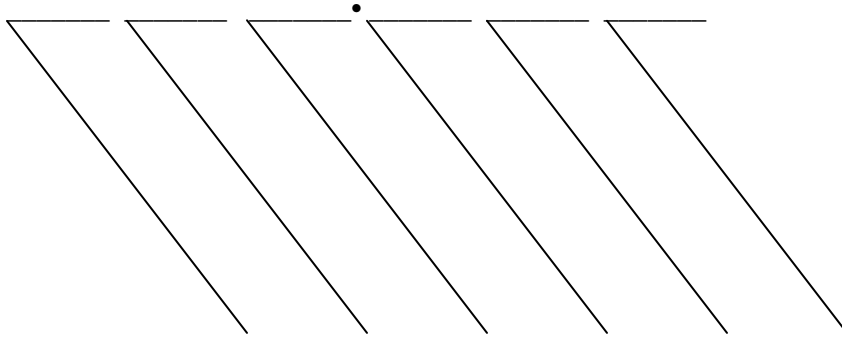
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### Decimals:

### Notes

#### Decimal Place Value



#### *Round to the Tenths*

3.32

21.78

0.873

#### *Comparing Decimals Largest to Smallest*

1.15, 0.871, 0.197

1.621, 3.5, 1.67

0.713, 2.17, 1.5

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### *Adding Decimals*

### Notes

$$37 + 2.78 + 0.01 + 0.3$$

$$2.41 + 0.3 + 14.2$$

$$0.13 + 16 + 3.07$$

### *Subtracting Decimals*

$$1.37 - 0.62$$

$$2.16 - 1.007$$

$$1 - 0.43$$

$$4 - 1.3$$

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### Comparing Percents, Decimals, & Fractions:

### Notes


$$\frac{12}{100}$$

0. \_\_\_\_\_

\_\_\_\_\_ %

$$\frac{45}{100}$$

0. \_\_\_\_\_

\_\_\_\_\_ %

$$\frac{78}{100}$$

0. \_\_\_\_\_

\_\_\_\_\_ %


$$\frac{25}{100}$$

0. \_\_\_\_\_

\_\_\_\_\_ %

$$\frac{31}{100}$$

0. \_\_\_\_\_

\_\_\_\_\_ %

$$\frac{50}{100}$$

0. \_\_\_\_\_

\_\_\_\_\_ %

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### Notes

#### *Find the Percent*

$0.72 = \underline{\hspace{2cm}} \%$

$0.321 = \underline{\hspace{2cm}} \%$

$0.78 = \underline{\hspace{2cm}} \%$

$0.079 = \underline{\hspace{2cm}} \%$

#### *Find the Decimal*

$52 \% = \underline{\hspace{2cm}}$

$37 \% = \underline{\hspace{2cm}}$

$8 \% = \underline{\hspace{2cm}}$

$12 \% = \underline{\hspace{2cm}}$

#### *Find the Fraction*

$0.72 = \underline{\hspace{2cm}}$

$23 \% = \underline{\hspace{2cm}}$

$0.30 = \underline{\hspace{2cm}}$

$3 \% = \underline{\hspace{2cm}}$

$0.57 = \underline{\hspace{2cm}}$

$61 \% = \underline{\hspace{2cm}}$



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### Finding the Percentage:

### Notes

25 is what percent of 90?

$$\frac{\text{(part)}}{\text{(whole)}} \div \frac{\text{(part)}}{\text{(whole)}} = \frac{\text{(percentage)}}{\text{(percentage)}} \%$$

12 is what percent of 36? \_\_\_\_\_

23 is what percent of 85? \_\_\_\_\_

41 is what percent of 68? \_\_\_\_\_

### *More Percentage Problems*

What is 75 % of 50? \_\_\_\_\_

Change the  
Percent to a  
Decimal

$$\frac{\text{.}}{\text{total}} \times \text{total} = \text{_____}$$

What is 30 % of 75? \_\_\_\_\_

What is 85 % of 20? \_\_\_\_\_

What is 90 % of 45? \_\_\_\_\_

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### *Percentages of a Group*

1) \_\_\_\_\_ the numbers together

2) Plug the numbers into the \_\_\_\_\_

$$\frac{\text{part}}{\text{whole}} \div \frac{\text{part}}{\text{whole}} = \frac{\text{percentage}}{\text{percentage}} \%$$

What is the percentage of phone calls this week that were received on Wednesday?

Monday -	15
Tuesday -	23
Wednesday -	28
Thursday -	41
Friday -	32

What is the percentage of physicals this week that were given on Friday?

Monday -	35
Tuesday -	14
Wednesday -	27
Thursday -	8
Friday -	21

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### Solving for X:

### Notes

$$3x = 24 \qquad x =$$

$$7x = 56 \qquad x =$$

$$25 - x = 13 + 2$$

$$15 - 7 = 2x$$

$$17 + x = 7 + 25$$