



TEACHER GUIDE

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STUDENT HANDOUTS

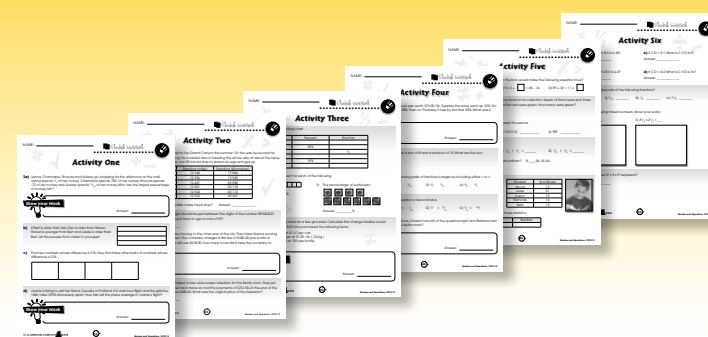
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STUDENT HANDOUTS

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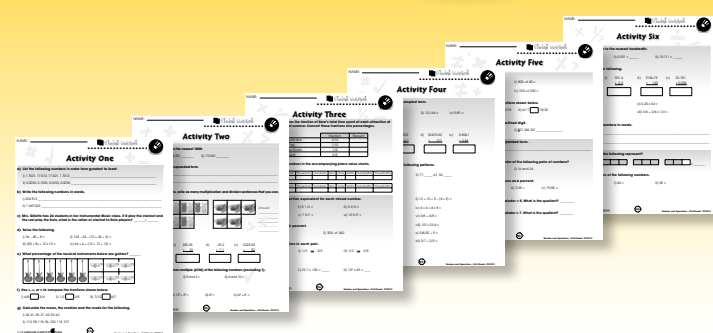
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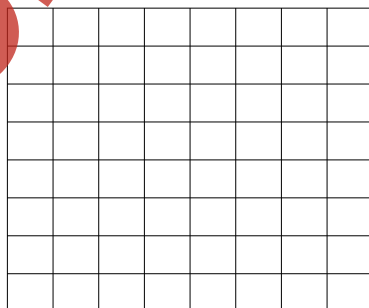




Task Sheet 1

1a) The grade 7 class at Whitmore School is planning a **Fair Day - Fun-Raiser** for the last day of school this month. They calculate the cost of supplies for the day will be \$250.00. Tickets will be sold at \$3.00. Complete the following chart to show how much profit they might make – based on the number of tickets sold. (The profit is based on the number of tickets sold minus the cost of supplies.)

Number of Tickets Sold	Profit
100	
200	
300	
400	
500	



b) Provide the missing labels on the graph, then plot the data from the above chart. (For the **Profit** data, use \$200 increments)

c) Another money-making activity they have planned for the Fair is the **Dunk Tank**. They are hoping to raise at least \$200.00 by having the students pay to dunk the vice-principal. If the rental of the tank is \$150.00, and they charge \$2.00 per participant, how many students will have to participate in order for them to raise \$200.00 profit?

Show your Work

Answer: _____



Task Sheet 11

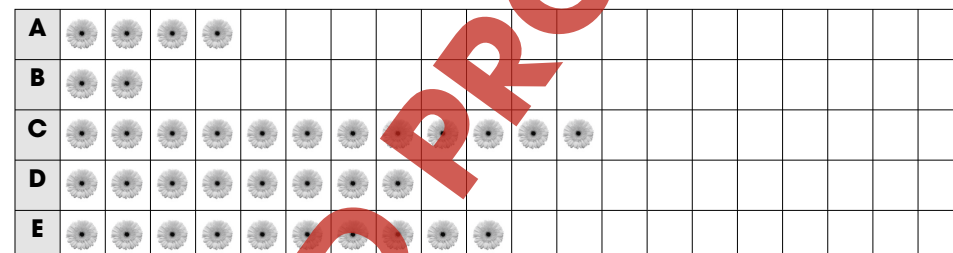
11a) A train ticket costs \$65.00 plus 7% state tax. Tamara bought a ticket using one \$50 bill and two \$10 bills. How much change should Tamara receive?



Show your Work

Answer: _____

b) Mary Jo decided to plant a flower garden this summer. This is what the garden looked like:



- i) Mary Jo filled 50% of which row? _____
- ii) Mary Jo filled what % of row B? _____
- iii) How many more percent was row C filled than row A? _____

Describe how you arrived at your answer for i) above.

c) If each of the flowers in b) is represented by a flower icon and each dozen flower seeds costs Mary Jo .75¢, how much did she pay for the seeds?

Answer: _____



5a) Solve the following.

i) $12 + 25 - (18 - 13) \times 2 =$ ii) $3.4 \times 5.6 =$ iii) $1230 \div 30 =$

iv) 4810×79 v) 7745×80 vi) 2649×93 vii) 5012×84

b) Which number is closest to 1 000 000?

- i. 987 231 ii. 1 363 497 iii. 1 036 511 iv. 986 999

c) For the following picture, write as many multiplication and division sentences that you can. Ex: $8 \times 4 = 32$



Answer: _____

d) Show each of the following fractions as a percent (to the closest whole number).

i) $3/25 =$ ii) $17/20 =$ iii) $3/5 =$ iv) $1/3 =$

e) The following numbers are written in expanded form. Rewrite them in standard form. Ex: $2 \times 10^3 + 5 \times 10^2 + 6 \times 10 + 1 = 2000 + 500 + 60 + 1 = 2561$

i) $7 \times 10^3 + 4 \times 10^2 + 9 \times 10 + 3 =$ ii) $4 \times 10^3 + 1 \times 10^2 + 9 \times 10 + 6 =$

f) Write the following fractions in order from least to greatest.

$3/2, 5/4, 6/5$ _____



7a) Solve the following.

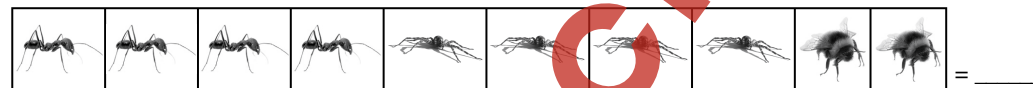
i) $(-6)(-4) =$ ii) $(7) + (-15) =$ iii) $(-6)(-11) =$

b) Calculate the mean, median and mode for the following list of numbers.

149, 296, 461, 345, 149, 333, 108

Mean	
Median	
Mode	

c) What fraction of the creatures below are ants?



What is an equivalent fraction of this? _____

d) Multiply the following.

i) 3906×245 ii) 5107×229 iii) 4.68×9.9 iv) 723.8×0.09

e) $8/9 \times 5/4$ is closest to what integer? Ex: $3/4 \times 7/5 = 21/20 = 1 \frac{1}{20} =$ ii. 1

- i. 0 ii. 1 iii. 2 iv. 3

Explore With Technology

A very helpful and interesting mathematics website is **Webmath**, found at <http://www.webmath.com/>

Check out "Math for Everyone." There, you'll find a lot of hands-on practice opportunities like calculating a tip and figuring out a sales price, among others.



Drill Sheet 1

1a) Which of the following fractions is not equivalent to $\frac{15}{45}$?

- i)
- $\frac{10}{15}$
- ii)
- $\frac{1}{3}$
- iii)
- $\frac{4}{12}$
- iv)
- $\frac{30}{90}$

b) The following pattern follows the following rule: double the previous number and add 3.

14, 31, 65, 133

What is the next number in this sequence?

- i) 198 ii) 284 iii) 312 iv) 269 Answer = _____

c) Compare the following numbers using either $>$ or $<$.

- i) 2345
- $_$
- 2335 ii) 23.45
- $_$
- 23.4 iii) 67234
- $_$
- 67234.12 iv) 0.190
- $_$
- 0.20

d) What is the number 10 000 before:

45 321	
678 424.6	
9 812 345	

e) Reduce the following to their simplest forms:

- i)
- $\frac{3}{15}$
- ii)
- $\frac{9}{27}$
- iii)
- $\frac{2}{15}$
- iv)
- $\frac{90}{100}$
- v)
- $\frac{75}{125}$

f) By which number is the pattern decreasing?

654 345, 653 345, 652 345,

- i) 100 000 ii) 10 000 iii) 1000 iv) 100 Answer = _____

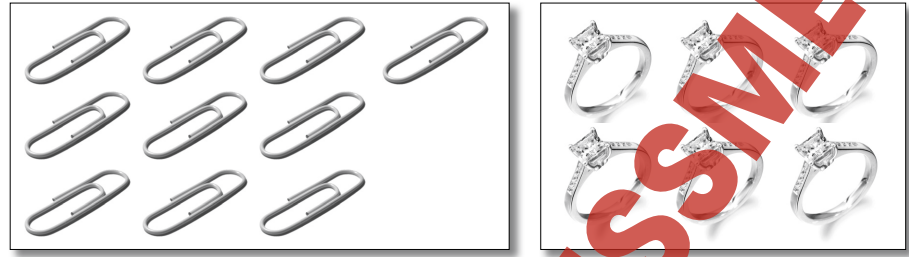
g) Which number is closest to 1 000 000

- i) 978 764 ii) 1 654 231 iii) 1 024 121 iv) 978 745 Answer = _____



Review A

a) For the following picture, write as many multiplication and division sentences that you can.



Answer = _____

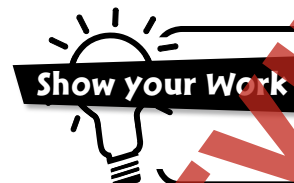
b) For each sentence below, write 7 more related sentences (use the same numbers).

- i)
- $4 \times 7 = 28$
- ii)
- $45 = 9 \times 5$

Answer i) = _____

Answer ii) = _____

c) There are 15 people in a room. 6 people are wearing socks, 4 people are wearing shoes, and 3 people are wearing both. How many people are in bare feet?



Answer: _____

d) The Revolution Period around the Sun for Earth takes 365 days. If it takes Venus only 62 of this time, approximately how many days is the Revolution Period for the planet Venus?

- i) 226 days ii) 246 days iii) 198 days iv) 302 days



Review B

a) Calculate the mean, mode and median for the following list of numbers.

- 234, 298, 125, 345, 745, 125, 541

Mean	
Mode	
Median	

b) Place a $<$ or $>$ sign between each pair of fractions to indicate which is greater.

- i)
- $\frac{5}{8}$
- $_$
- $\frac{7}{8}$
- ii)
- $\frac{2}{3}$
- $_$
- $\frac{5}{8}$
- iii)
- $\frac{1}{3}$
- $_$
- $\frac{3}{8}$
- iv)
- $\frac{1}{2}$
- $_$
- $\frac{5}{8}$
- v)
- $\frac{3}{6}$
- $_$
- $\frac{3}{7}$

c) Replace each blank with the correct digit.

- i)
- $21__ 341 + 8567 = 218908$
- ii)
- $23.074 - 12.7__ 1 = 10.353$
- iii)
- $9.2 \times 6.__ = 58.88$

d) Mrs. Wormstead baked a batch of chocolate chip cookies. Each batch has a total of 15 cookies. Mrs. Wormstead's son, Steadfast, came home and ate $\frac{1}{3}$ of this batch. If she then baked three more batches, what is the total number of cookies that Mrs. Wormstead has?

- i) 40 ii) 55 iii) 60 iv) 45

e) Meredith finishes a race in 39.761 seconds. Her friend Amanda also ran in the same race. We know the following about Amanda's results:

- The number in the thousandths column is twice that of Meredith's
- The digit in the tens column was six more than Meredith's
- The number in the tenths column was five less than Meredith's

What is Amanda's time?

Answer = _____

f) The following numbers are written in expanded form. Rewrite them in standard form.

- i)
- $4 \times 10^3 + 3 \times 10^2 + 5 \times 10 =$
- ii)
- $7 \times 10^3 + 8 \times 10^2 + 2 \times 10 =$

Rounding, Ordering, Patterning, Fractions, Greater Than/Less Than

a) Round off the following numbers to the nearest hundredth.

- i)
-
- ii)
-
- iii)
-

b) List the following integers in order from least to greatest.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

c) What is the number 10 000 before:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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d) By which number is the pattern decreasing?

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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e) Reduce the following fractions to their simplest forms.

- i)
-
- ii)
-
- iii)
-

f) Circle either $<$ or $>$ to indicate which number is larger in each of the following pairs.

- i)
-
- ∇
-
- ii)
-
- ∇
-
- iii)
-
- ∇
-

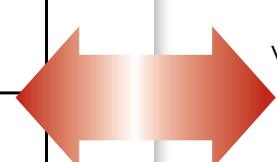
NAME: _____



9a) Listed below in the first column are the formulas that are used to determine the area, surface area, or perimeter of different shapes. Write the shape that each formula represents in the second column. Then, using a ruler, draw a sample of each shape using inches or centimeters. Determine the area or perimeter for each shape you draw.

Formula	Shape it may represent	Sample Shape	Area	Perimeter
Ex: $P = 4 \text{ side}$	Square		$A = s^2$ $A = (0.8 \text{ in}/2 \text{ cm})^2$ $A = 0.64 \text{ sq. in}/$ 4 sq. cm	$P = 4 (0.8 \text{ in}/2 \text{ cm})$ $P = 3.2 \text{ in}/8 \text{ cm}$
i) $A = \frac{1}{2} b \times h$				
ii) $P = 3s$				
iii) $A = l \times w$				
iv) $P = 5s$				
v) $A = \pi r^2$				
vi) $P = 2l + 2w$				
vii) $A = s^2$				
viii) $P = 6s$				
ix) $A = 6a^2$				

EASY MARKING



9.

a)

- i) Triangle or Parallelogram
- ii) Triangle
- iii) Quadrilateral
- iv) Pentagon
- v) Circle
- vi) Quadrilateral
- vii) Square
- viii) Hexagon
- ix) Cube

Shapes will vary.
Areas and Perimeters will vary.

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10.

a)

- i) Perimeter = 5.2 in (12 cm),
Area = 1.69 sq in (9 sq cm)
- ii) Perimeter = 4.2 in (10 cm),
Area = 1.04 sq in (6 sq cm)
- iii) Perimeter = 4 in (10 cm),
Area = 1 sq in (6.25 sq cm)
- iv) Perimeter = 5.2 in (12 cm),
Area = 4.4 sq in (10.6 sq cm)
- v) Perimeter = 3 in (7.4 cm),
Area = 0.28 sq in (1.7 sq cm)
- vi) Perimeter = 5.2 in (13 cm),
Area = 1.6 sq in (10 sq cm)
- vii) Answers will vary.
- viii) Answers will vary.

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11.

Answers may vary.

39

12.

a)

- i) 12 ft = 144 in
- ii) 0.5 yd = 1.5 ft
- iii) 72 in = 2 yds
- iv) 7.5 ft = 2.5 yds
- v) 2.5 yds = 90 in
- vi) 21 ft = 252 in
- vii) 78 in = 6.5 ft
- viii) 30 yds = 1080 in
- ix) 3.3 yd = 118.8 in
- x) 42 in = 3.5 ft
- xi) 16 in = 1.3 ft
- xii) 26.5 yds = 79.5 ft
- xiii) 3 m = 3,000 mm
- xiv) 2.5 cm = 250 mm
- xv) 19 cm = 190 mm
- xvi) 14 m = 1400 cm
- xvii) 855 mm = 0.855 m
- xviii) 9.5 cm = 0.095 m
- xix) 326 mm = 32.6 cm
- xx) 29 cm = 290 mm
- xxi) 25 cm = 0.25 m
- xxii) 1890 mm = 189 cm

40

13.

a)

- i) 22 sq in (137.5 sq cm)
- ii) 184 sq in (1150 sq cm)
- iii) 192 sq in (1200 sq cm)
- iv) 117 sq in (765 sq cm)
- v) 324 sq in (2025 sq cm)
- vi) 9.5 sq in (58 sq cm)
- vii) 1398 sq in (8969 sq cm)
- viii) 27 sq in (175 sq cm)
- ix) 802 sq in (5118 sq cm)
- x) 300 sq in (1924 sq cm)
- xi) 216 sq in (1350 sq cm)
- xii) 192 sq in (1200 sq cm)
- xiii) 304 sq in (1900 sq cm)
- xiv) 52 sq in (325 sq cm)
- xv) 365 sq in (2334 sq cm)
- xvi) 51.5 sq in (328 sq cm)
- xvii) 5.5 sq in (33 sq cm)
- xviii) 351 sq in (2250 sq cm)
- xix) 184.5 sq in (1148 sq cm)
- xx) 220 sq in (1387.5 sq cm)

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