

Math Midterm Review Worksheet S2

G5 Class: _____ Name: _____

1. Fill in the blanks.

a. $8.15 \times 10 = 81.5$

b. $10 \times 3.028 = 30.28$

c. $63.425 \times 1000 = 63425$

d. $100 \times 0.81 = 81$

e. $1.907 \times 10 = 19.07$

f. $53.42 \times 10 = 534.2$

g. $9.097 \times 100 = 909.7$

h. $50.95 \times 1000 = 50950$

i. $713.02 \div 10 = 71.302$

j. $0.84 \div 10 = 0.084$

k. $5.7 \div 100 = 0.057$

l. $30400 \div 1000 = 30.4$

m. $1.84 \div 10 = 0.184$

n. $27.05 \div 10 = 2.705$

o. $90 \div 100 = 0.9$

p. $62 \div 100 = 0.62$

q. $2053 \div 1000 = 2.053$

r. $13870 \div 1000 = 13.87$

2. Find the value of the each following. Please show your work.

a. $9.04 \times 60 =$ $9.04 \times 6 \times 10$ or $9.04 \times 10 \times 6$ $= 542.4$	b. $80 \times 5.179 =$ $8 \times 10 \times 5.179$ or $10 \times 8 \times 5.179$ $= 414.32$
c. $300 \times 0.105 =$ $3 \times 100 \times 0.105$ or $100 \times 3 \times 0.105$ $= 31.5$	d. $3.003 \times 5000 =$ $3.003 \times 5 \times 1000$ or $3.003 \times 1000 \times 5$ $= 15015$
e. $36 \div 40 =$ $36 \div 4 \div 10$ or $36 \div 10 \div 4$ $= 0.9$	f. $67.2 \div 70 =$ $67.2 \div 7 \div 10$ or $67.2 \div 10 \div 7$ $= 0.96$
g. $56640 \div 8000 =$ $56640 \div 8 \div 1000$ or $56640 \div 10 \div 8$ $= 7.08$	h. $201 \div 300 =$ $201 \div 3 \div 100$ or $201 \div 10 \div 3$ $= 0.67$

i. $1.02 \div 30 =$ $1.02 \div 3 \div 10$ or $1.02 \div 10 \div 3$ $= 0.034$	j. $27 \div 60 =$ $27 \div 6 \div 10$ or $27 \div 10 \div 6$ $= 0.45$
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3. Find the equivalent measures.

a. $1.53 \text{ m} = 153 \text{ cm}$

b. $2.07 \text{ km} = 2070 \text{ m}$

c. $19.975 \text{ kg} = 19975 \text{ g}$

d. $3.4 \text{ L} = 3400 \text{ ml}$

e. $12.03 \text{ m} = 12 \text{ m } 3 \text{ cm}$

f. $219.7 \text{ km} = 219 \text{ km } 700 \text{ m}$

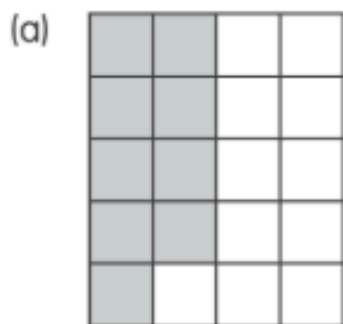
g. $4.007 \text{ L} = 4 \text{ L } 7 \text{ ml}$

h. $3.64 \text{ kg} = 3 \text{ kg } 640 \text{ g}$

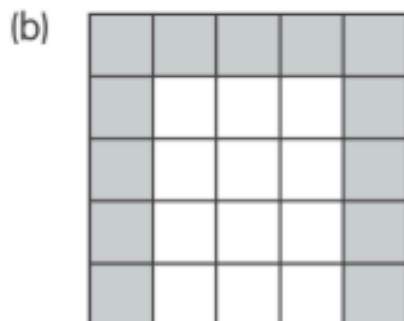
i. $30087 \text{ g} = 30 \text{ kg } 87 \text{ g}$

j. $106 \text{ cm} = 1 \text{ m } 6 \text{ cm}$

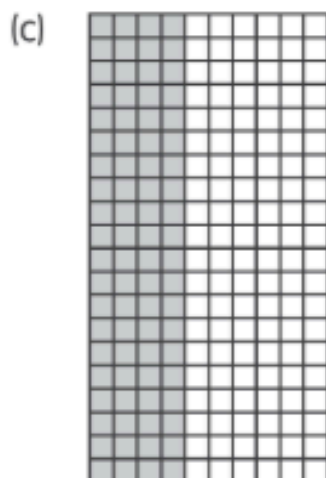
4. Fill in the blanks.



	Fraction	Decimal	Percentage
Shaded	$\frac{9}{20}$	0.45	45%
Unshaded	$\frac{11}{20}$	0.55	55%



	Fraction	Decimal	Percentage
Shaded	$\frac{13}{25}$	0.52	52%
Unshaded	$\frac{12}{25}$	0.48	48%



	Fraction	Decimal	Percentage
Shaded	$\frac{80}{200}$	0.4	40%
Unshaded	$\frac{120}{200}$	0.6	60%

5. Express each decimal as a percentage.

a. 0.28 = 28%	b. 0.3 = 30%
c. 0.64 = 64%	d. 0.07 = 7%

6. Express each fraction as a percentage.

a. $\frac{4}{5} =$ $= 0.8$ or $= \frac{80}{100} = 80\%$	b. $\frac{19}{25} =$ $= 0.76$ or $= \frac{76}{100} = 76\%$
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c. $\frac{63}{90} =$ $= 0.7$ or $= \frac{70}{100} = 70\%$	d. $\frac{78}{200} =$ $= 0.39$ or $= \frac{39}{100} = 39\%$
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7. Express each of the following percentages as a fraction in its simplest form.

Example: $40\% = \frac{2}{5}$

a. $50\% =$ $= \frac{50}{100} = \frac{1}{2}$	b. $75\% =$ $= \frac{75}{100} = \frac{3}{4}$
c. $48\% =$ $= \frac{48}{100} = \frac{12}{25}$	d. $23\% =$ $= \frac{23}{100}$
e. $82\% =$ $= \frac{82}{100} = \frac{41}{50}$	f. $30\% =$ $\frac{30}{100} = \frac{3}{10}$
g. $88\% =$ $= \frac{88}{100} = \frac{22}{25}$	h. $65\% =$ $= \frac{65}{100} = \frac{13}{20}$
i. $64\% =$ $= \frac{64}{100} = \frac{16}{25}$	j. $20\% =$ $= \frac{20}{100} = \frac{1}{5}$

8. Find the value of each of the following. Put the correct metric units.

Example: $90\% \times 150 \text{ km} = 135 \text{ km}$

- | | |
|--|---|
| a. 35% of $80 \text{ L} = 28 \text{ L}$ | b. 75% of $16 \text{ cm} = 12 \text{ cm}$ |
| c. $40\% \times 24 \text{ m} = 9.6 \text{ m}$ | d. $32\% \times 50 \text{ kg} = 16 \text{ kg}$ |
| e. $55\% \times 12 \text{ g} = 6.6 \text{ g}$ | f. $90\% \times \$350 = \315 |
| g. $80\% \times 650 \text{ ml} = 520 \text{ ml}$ | h. $19\% \times 130 \text{ km} = 24.7 \text{ km}$ |
| i. $37\% \times 200 \text{ g} = 74 \text{ g}$ | j. $7\% \times \$4650 = \325.5 |

9. Find the amount of discount for each the following items.

(a)



Discount = 15%

$$100\% \rightarrow \$29$$

$$1\% \rightarrow \$29 \div 100$$

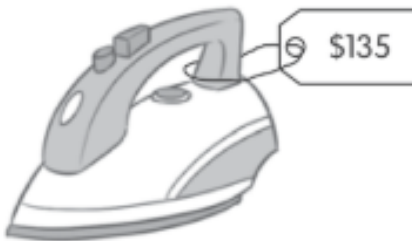
$$= \$0.29$$

$$15\% \rightarrow \$0.29 \times 15$$

$$= \$4.35$$

The amount of discount is \$4.35.

(b)



Discount = 23%

$$100\% \rightarrow \$135$$

$$1\% \rightarrow \$135 \div 100$$

$$= \$1.35$$

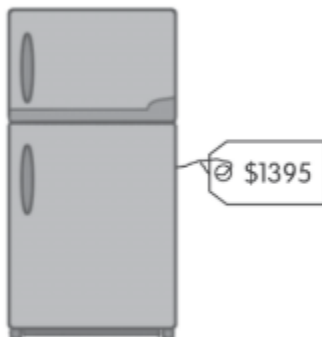
$$23\% \rightarrow \$1.35 \times 23$$

$$= \$31.05$$

The amount of discount is \$31.05.

10. Find the amount of GST for each of the following items. The prices shown do not include 7% GST.

(a)



$$100\% \rightarrow \$1395$$

$$1\% \rightarrow \$1395 \div 100$$

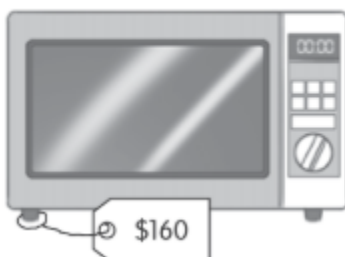
$$= \$13.95$$

$$7\% \rightarrow \$13.95 \times 7$$

$$= \$97.65$$

The amount of GST is \$97.65.

(b)



$$100\% \rightarrow \$160$$

$$1\% \rightarrow \$160 \div 100$$

$$= \$1.60$$

$$7\% \rightarrow \$1.60 \times 7$$

$$= \$11.20$$

The amount of GST is \$11.20.

11. Word Problems: Please show all your work and include units in your answers.

- a. The total mass of 6 bottles of milk and 9 bottles of apple juice was 3.3 kg.
The total mass of 3 bottles of milk and 4 bottles of apple juice was 1.56 kg.
Find the mass of a bottle of apple juice in kilograms.

6 bottles of milk and 8 bottles of apply juice □

$$2 \times 1.56 = 3.12$$

$$3.3 - 3.12 = 0.18$$

A: a bottle of apple juice was 0.18 kg

- b. There were 100 workers in a factory. Each worker worked 40 hours per week and was paid \$6.5 an hour. How much did the company have to pay the 100 workers altogether each week

$$100 \times 40 = 4000 \text{ (working hours)}$$

$$4000 \times \$6.5 = \$26000$$

A: \$26000

- c. Mr. Huang bought a refrigerator for \$3450. He paid $\frac{3}{5}$ of the amount and took a loan for the rest. He paid the loan at the end of the 1st year. The bank charged 3.5% interest for the loan. How much interest did Mr. Huang pay?

$$\$3450 \times (1 - \frac{3}{5})$$

$$= \$3450 \times \frac{2}{5}$$

$$= \$1380$$

$$\$1380 \times 3.5\% = \$48.3$$

A: \$48.3

- d. Mrs. Huang bought 300 m of ribbon to make some decorative flowers. She used 1.22 m to make one larger flower. She made 200 large flowers and 100 smaller flowers with the remaining ribbon. What was the length of ribbon used to make one small flower?

$$\text{All large flowers: } 200 \times 1.22 = 244$$

$$\text{All small flowers: } 300 - 244 = 56$$

$$\text{One small flower: } 56 \div 100 = 0.56$$

A: 0.56 m