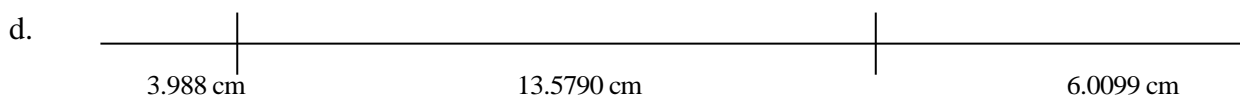
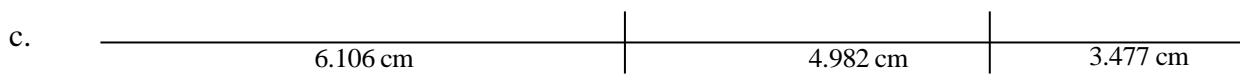
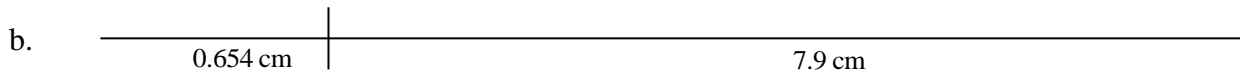
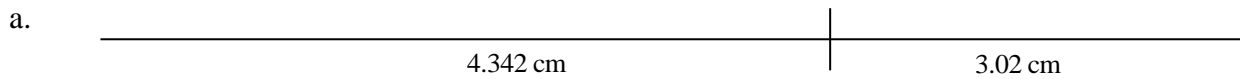
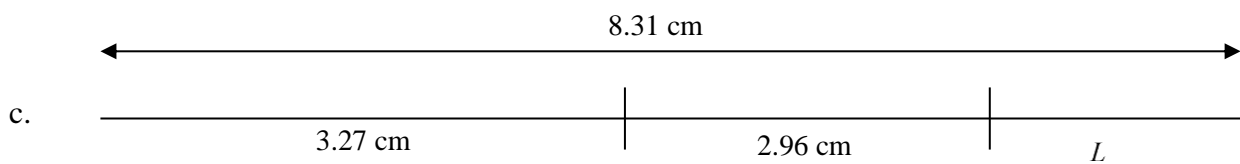
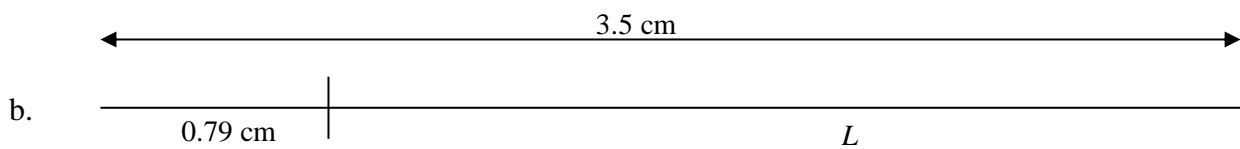
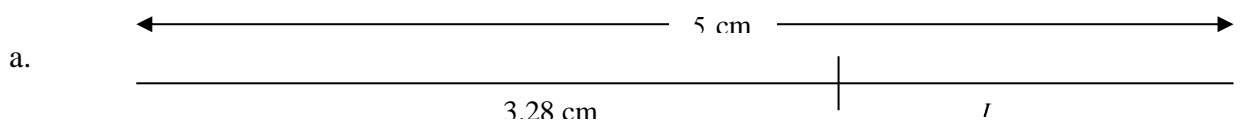


Decimals Worksheet 1 – Operations

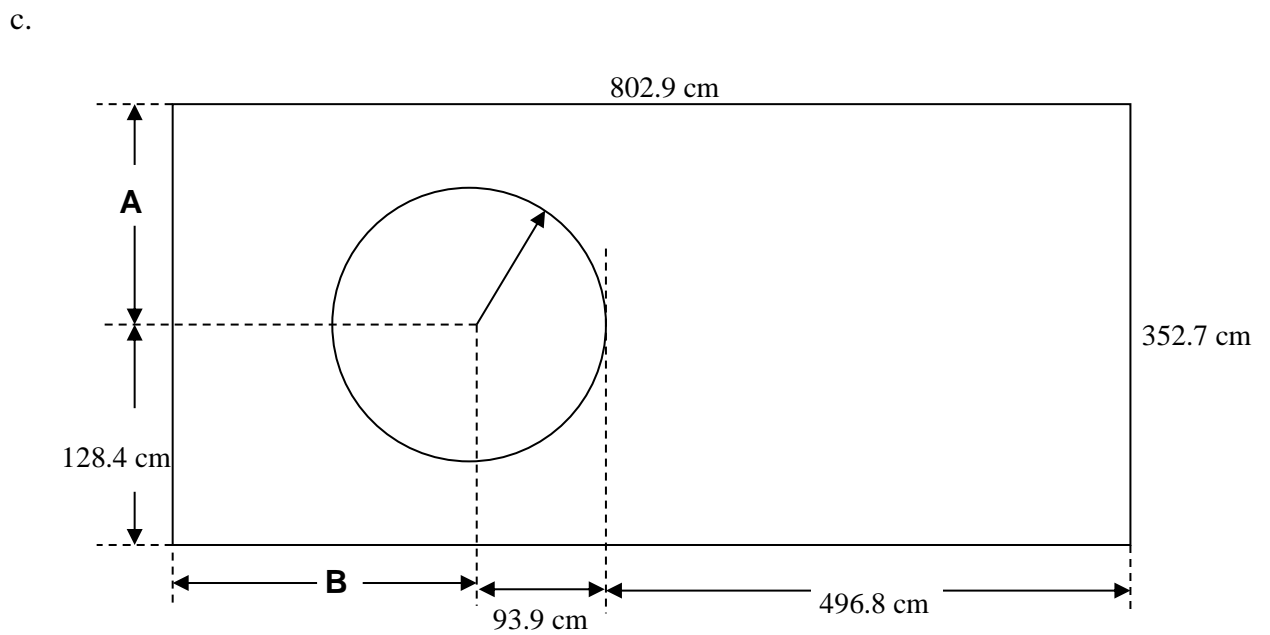
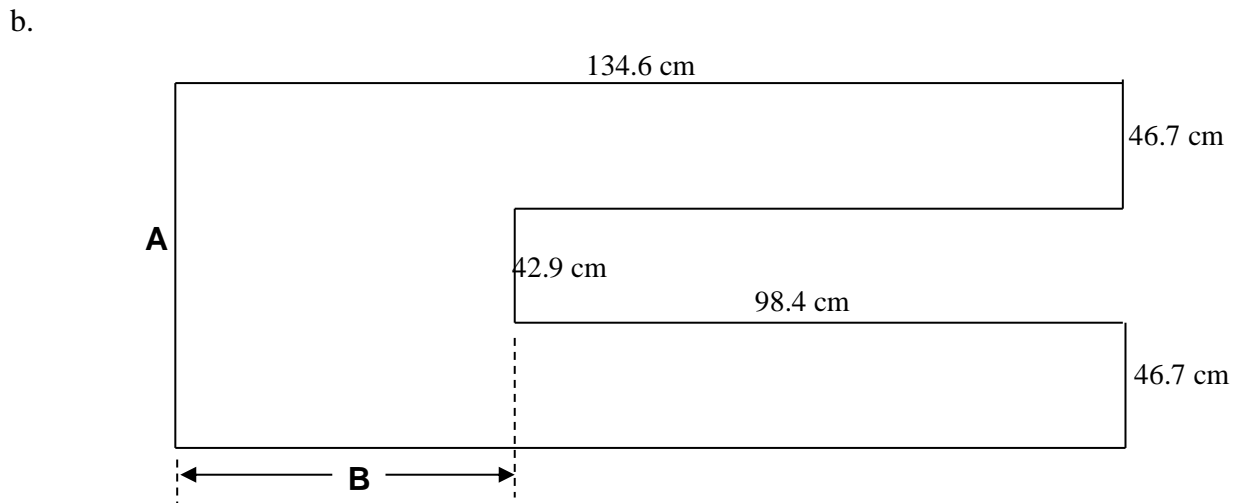
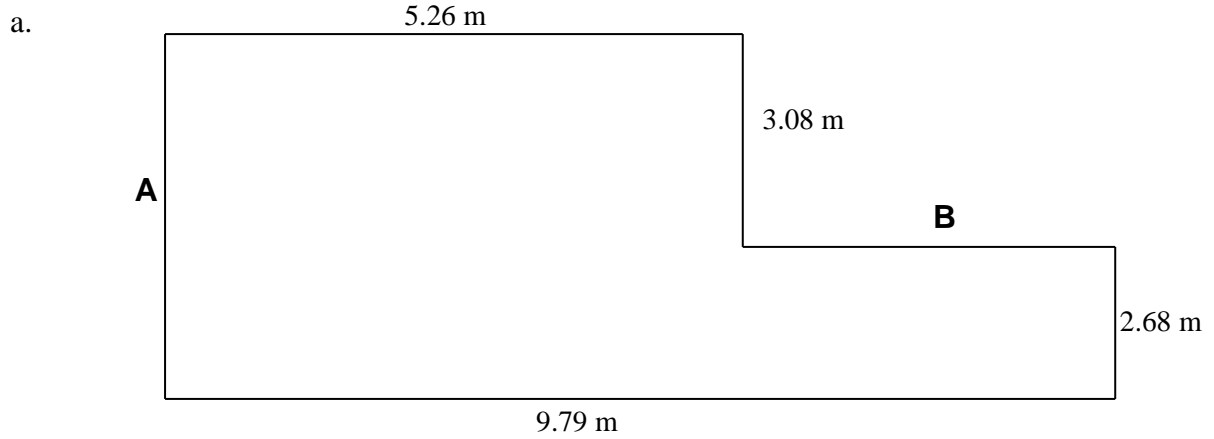
1. Find the total length of each of these lines, without using a calculator.



2. L is the length of the segment. Find L , without using a calculator.

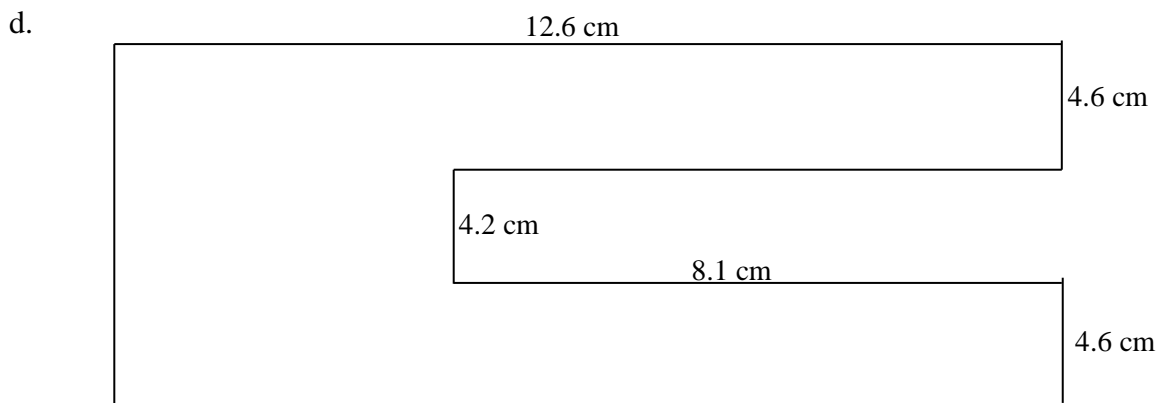
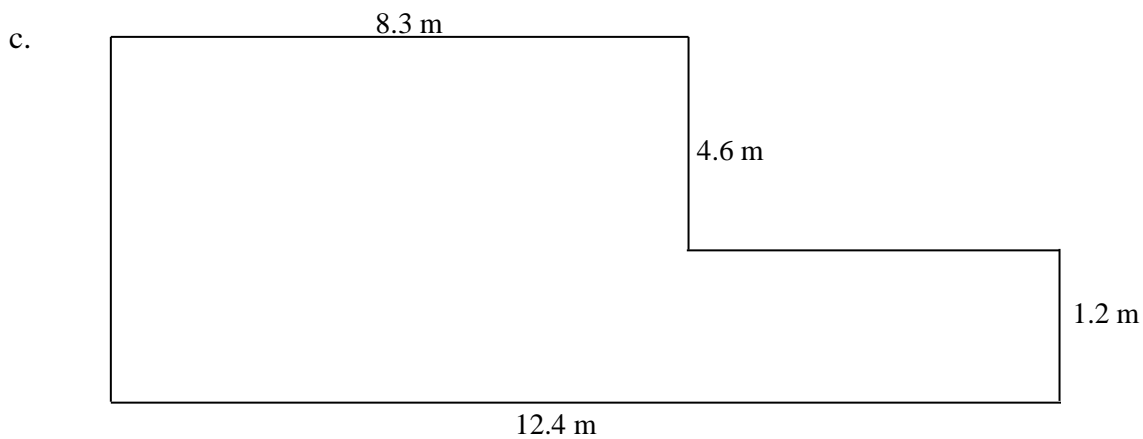
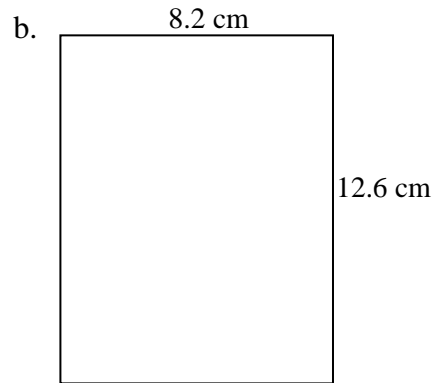
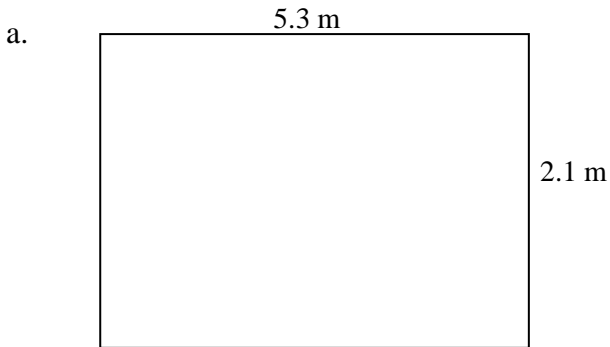


3. Find the unknown lengths, marked with **A** and **B**.



Decimals Worksheet 2 – Multiplication and Division

1. Find the area of each of these shapes, without using a calculator.



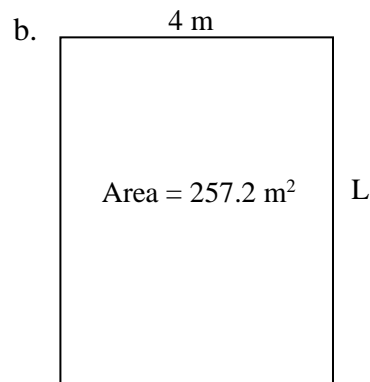
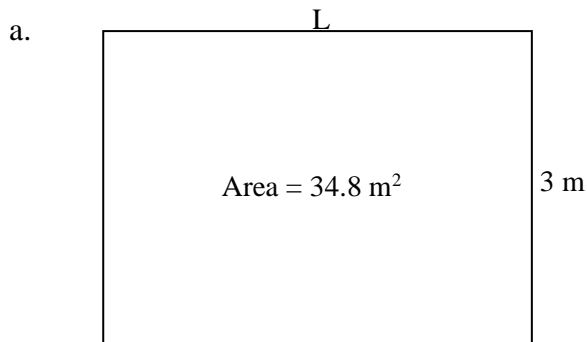
e. You have three steel rods, each 12.49 metres long. You lay them end to end. How long are the three rods altogether?

2. a. A rectangular paddock measures 640 metres by 322 metres. What is its area?

b. The paddock is divided into five smaller paddocks, each the same size. Calculate the area of each of these smaller paddocks.

Homework

1. Find the length marked L, without using a calculator.



- 2.
- 435 ml of lotion is to be split evenly between 5 jars. How much lotion is in each jar?
 - Three friends pooled their money to bet on a horse. They won \$145.50. If they split the winnings evenly, how much does each receive?
 - A tap is turned on, and the water collected in a bucket. If 10.44 litres of water is collected in 6 seconds, how much is collected each second?
 - Electricity to run an air conditioner cost \$38.40 for one week. What was the average cost per day?
 - A 40 g glue stick lasted for 80 days. How much glue was used each day, on average?
 - A rib fillet weighing 2.64 kilograms was cut into 8 steaks. On average, how much does each steak weigh? Express your answer in grams.
 - Amanda earned \$720.60 for five days work. How much did she earn on average each day?
3. Express as a decimal:
- four and a half bags of grain
 - three and a quarter tons of wheat
- 4.
- A bag of grain weighs 23.6 kg. How much would three and a half bags weigh?
 - An ingot of gold weighs 165.6 kg. How much does one-third of an ingot weigh?
 - It takes one person two and three quarter hours to cook a roast. How long does it take two people to cook the roast?
 - An item that normally sells for \$92.60 is marked one-quarter off. How much does it now cost?
 - One cubic centimetre of lead weighs 5.46 grams. What is the weight of 24.7 cubic centimetres of lead?

Decimals Worksheet 3 - Operations

1. Add these columns of figures, without a calculator.

$$\begin{array}{r} \text{a.} \quad 545.6 \\ \quad 243.9 \\ + \quad 195.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 65.96 \\ \quad 193.81 \\ + \quad 75.98 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 0.713 \\ \quad 0.188 \\ \quad 0.409 \\ + \quad 0.564 \\ \hline \end{array}$$

2. Subtract, without a calculator.

$$\begin{array}{r} \text{a.} \quad 22123.83 \\ - \quad 23165.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 223.8 \\ - \quad 35.48 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 0.0454 \\ - \quad 0.0299 \\ \hline \end{array}$$

3. Multiply, without a calculator.

$$\begin{array}{r} \text{a.} \quad 3.83 \\ \quad \times 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 2923.8 \\ \quad \times 0.8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad .354 \\ \quad \times 0.91 \\ \hline \end{array}$$

4. Divide, without a calculator.

$$\text{a.} \quad \overline{6) 3.72}$$

$$\text{b.} \quad \overline{4) 17.52}$$

$$\text{c.} \quad \overline{0.3) 0.1461}$$

5. a. $94.04 + 645.1 + 85.07$

b. $75.23 - 7.09$

c. 4.56×7.3

d. $321.5 \div 5$

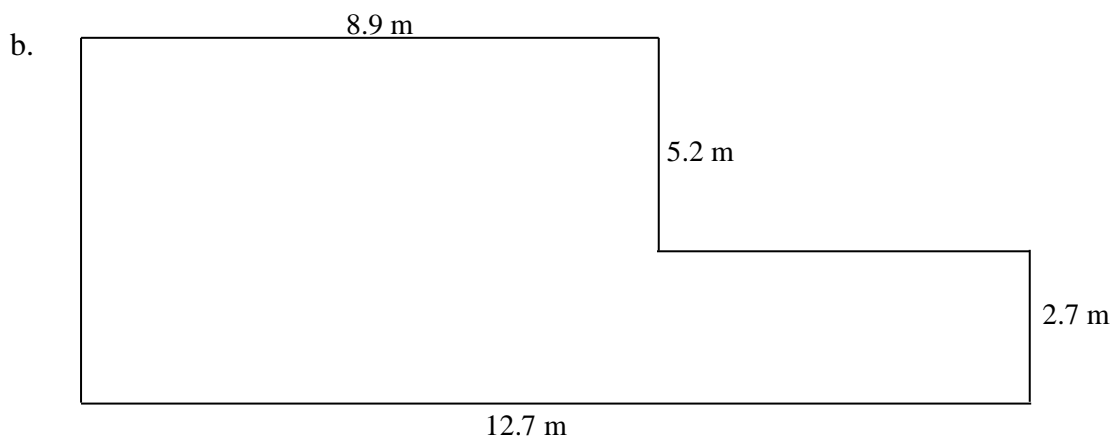
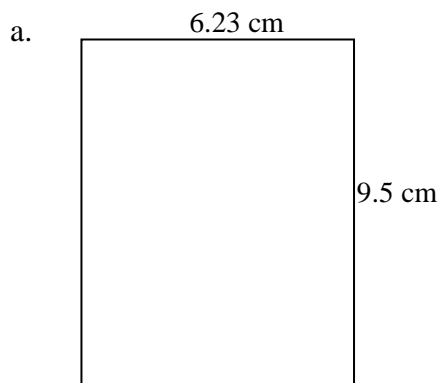
6. Below are Joshua's weekly earnings for the last six weeks.

a. What were his total earnings?

Week	Earnings
1	\$356.19
2	\$732.54
3	\$977.15
4	\$573.05
5	\$397.92
6	\$610.23

b. What were his average (mean) weekly earnings?

7. Find the area of each of these shapes, without using a calculator. Show working.



8. a. 1250 ml of lotion is to be split evenly between 5 jars. How much lotion is in each jar?
- b. Three friends pooled their money to bet on a horse. They won \$220.50. If they split the winnings evenly, how much does each receive?
- c. A tap is turned on, and the water collected in a bucket. If 13.32 litres of water is collected in 4 seconds, how much is collected each second?

Decimals Worksheet 4 – Operations

1. Add these columns of figures, without a calculator.

$$\begin{array}{r} \text{a.} \quad 875.3 \\ \quad 643.9 \\ + \quad 791.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 15.26 \\ \quad 793.81 \\ + \quad 85.98 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 0.713 \\ \quad 0.488 \\ \quad 0.409 \\ + \quad 0.064 \\ \hline \end{array}$$

2. Subtract, without a calculator.

$$\begin{array}{r} \text{a.} \quad 35023.83 \\ - \quad 26165.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 523.8 \\ - \quad 55.98 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 0.1454 \\ - \quad 0.0699 \\ \hline \end{array}$$

3. Multiply, without a calculator.

$$\begin{array}{r} \text{a.} \quad 2.73 \\ \quad \times 8.4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 3926.8 \\ \quad \times 0.7 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 0.096 \\ \quad \times 0.82 \\ \hline \end{array}$$

4. Divide, without a calculator.

$$\begin{array}{r} \text{a.} \quad \overline{6) 4.74} \end{array}$$

$$\begin{array}{r} \text{b.} \quad \overline{4) 57.28} \end{array}$$

$$\begin{array}{r} \text{c.} \quad \overline{0.3) 0.0901} \end{array}$$

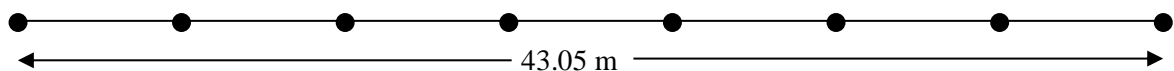
5. a. $44.04 + 525.1 + 92.07$

b. $35.23 - 17.45$

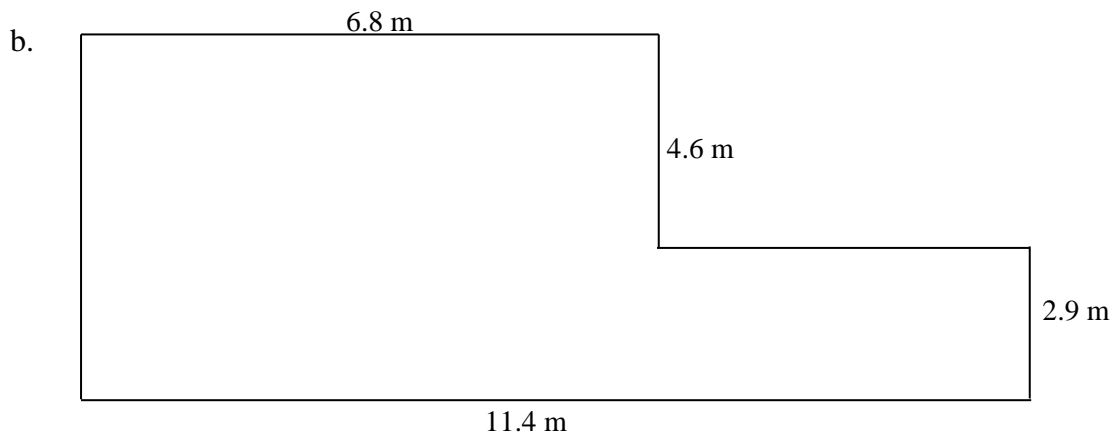
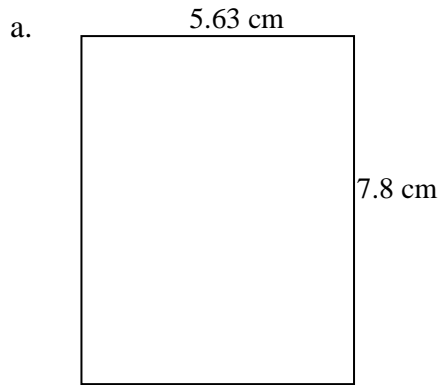
c. 4.66×8.2

d. $427.2 \div 4$

6. I need to put in eight fence posts, evenly spaced, along one edge of my property, as shown below. How far apart must the fence posts be?



7. Find the area of each of these shapes, without using a calculator. Show working.



8. a. Eight planks of wood are stacked together. The total height of the stack is 336 mm. How thick is each plank of wood?
- b. Four friends pooled their money to bet on a horse. They won \$360.50. If they split the winnings evenly, how much does each receive?
- c. A tap is turned on, and the water collected in a bucket. If 16.95 litres of water is collected in 5 seconds, how much is collected each second?

Decimals Worksheet 5 – Operations

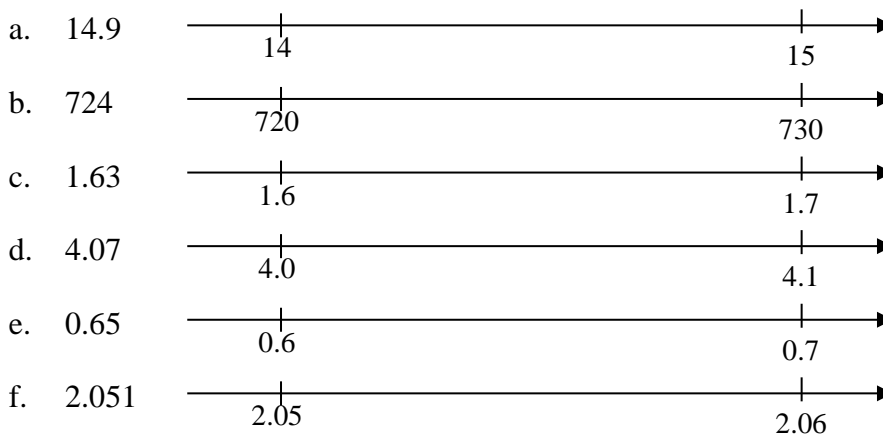
1. In each row, circle the larger number

- a. 0.13 0.28
 b. 0.099 0.12
 c. 0.06523 0.06532

2. Write a greater than sign (>) or a less than sign (<) between each pair of numbers, to make each sentence true.

- a. 0.46 0.399
 b. 0.1900 0.12
 c. 0.09997 1.0003

3. Mark approximately where each number is on its number line.



4. Use your answers to Question 3 to round off each number as indicated.

- a. 14.9 to the nearest whole number.
 b. 724 to the nearest ten.
 c. 1.63 to the nearest tenth.
 d. 4.07 to the nearest tenth
 e. 0.65 to the nearest tenth
 f. 2.051 to the nearest hundredth.

5. Round off each of these numbers as indicated.

- | | | | | |
|-------------------------------------|----------|----------|---------|------|
| a. Round to the nearest ten: | 243 | 7219 | 45 | 56.6 |
| b. Round to the nearest whole: | 34.1 | 89.5 | 3.878 | |
| | 412.493 | | | |
| c. Round to the nearest tenth: | 25.71 | 434.89 | 123.45 | |
| | 56.499 | | | |
| d. Round to the nearest thousandth: | 23.81222 | 0.001345 | 0.02056 | |

6. Add these columns of figures, without a calculator.

$$\begin{array}{r} \text{a.} \quad \quad \quad 915.3 \\ \quad \quad \quad 203.0 \\ + \quad 776.6 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad \quad \quad 2215.26 \\ \quad \quad \quad 993.81 \\ + \quad 95.98 \\ \hline \end{array}$$

7. Subtract, without a calculator.

$$\begin{array}{r} \text{a.} \quad \quad \quad 82503.8 \\ - \quad 37535.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad \quad \quad 523.2 \\ - \quad 7.68 \\ \hline \end{array}$$

8. Multiply, without a calculator.

$$\begin{array}{r} \text{a.} \quad \quad \quad \quad \quad 6.19 \\ \quad \quad \quad \quad \quad \times \quad 3.8 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad \quad \quad \quad \quad 6287.8 \\ \quad \quad \quad \quad \quad \times \quad 0.8 \\ \hline \end{array}$$

9. Divide, without a calculator.

$$\text{a.} \quad \quad \quad \underline{\quad \quad \quad} \\ 6) 4.74$$

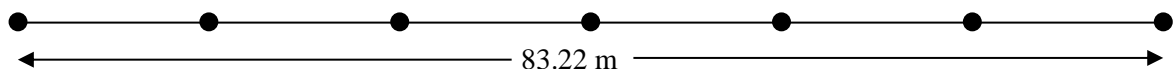
$$\text{b.} \quad \quad \quad \underline{\quad \quad \quad} \\ 0.3) 0.0901$$

ANSWER THE REST OF THESE QUESTIONS IN YOUR MATHS PAD

10. a. $\$123.56 + \$727.82 + \$92.07$
 c. $\$674.66 \times 3.1$

- b. $\$453.68 - \273.81
 d. $\$3543.2 \div 8$

11. I need to put in eight fence posts, evenly spaced, along one edge of my property, as shown below. How far apart must the fence posts be?



12. a. A pole that is 9.2 metres long has four shorter poles each 1.6 metres long cut from it. How long is the remaining piece?
- b. Seven friends pooled their money to buy a lotto ticket. They won \$1 079 400. If they split the winnings evenly, how much does each receive?
- c. A sack of gold is divided into four piles weighing 213.4 grams each, plus five piles weighing 312.6 grams each. How much does the gold weigh altogether?

Decimals Worksheet 6 – Operations

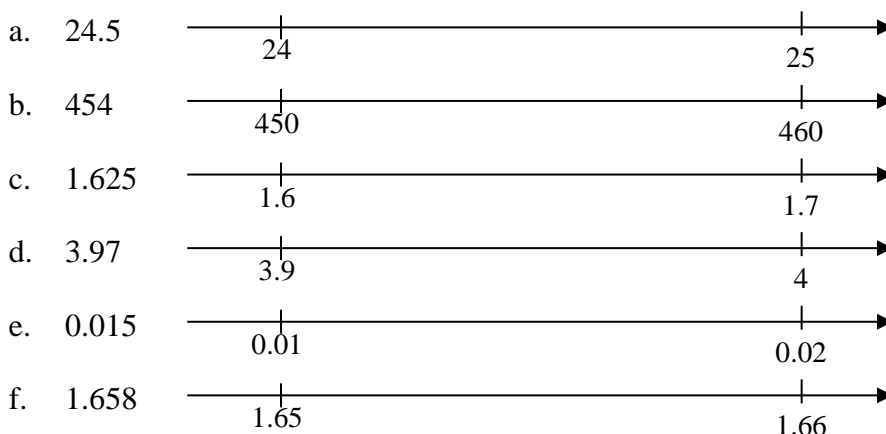
1. In each row, circle the larger number

- a. 0.93 1.08
 b. 0.019 0.0032
 c. 0.03513 0.03532

2. Write a greater than sign (>) or a less than sign (<) between each pair of numbers, to make each sentence true.

- a. 0.39 0.3688
 b. 0.1167 0.12
 c. 0.09997 0.1003

3. Mark approximately where each number is on its number line.



4. Use your answers to Question 3 to round off each number as indicated.

- a. 24.5 to the nearest whole number.
 b. 454 to the nearest ten.
 c. 1.625 to the nearest tenth.
 d. 3.97 to the nearest tenth
 e. 0.015 to the nearest tenth
 f. 1.658 to the nearest hundredth.

5. Round off each of these numbers as indicated.

- | | | | | |
|-------------------------------------|---------|----------|--------|-------|
| a. Round to the nearest ten: | 541 | 6236 | 85 | 96.6 |
| b. Round to the nearest whole: | 64.8 | 79.6 | 5.499 | 99.96 |
| c. Round to the nearest tenth: | 36.28 | 834.48 | 516.55 | 99.96 |
| d. Round to the nearest thousandth: | 63.9124 | 0.006755 | 0.0029 | |
| | 99.9999 | | | |

6. Add these columns of figures, without a calculator.

a.

$$\begin{array}{r} 417.9 \\ 103.2 \\ + 776.8 \\ \hline \end{array}$$

b.

$$\begin{array}{r} 6345.78 \\ 782.89 \\ + 75.18 \\ \hline \end{array}$$

7. Subtract, without a calculator.

$$\begin{array}{r} \text{a.} \quad \quad \quad 62003.8 \\ - \quad \quad \quad 27535.9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad \quad \quad 433.2 \\ - \quad \quad \quad 5.81 \\ \hline \end{array}$$

8. Multiply, without a calculator.

$$\begin{array}{r} \text{a.} \quad \quad \quad 26.29 \\ \quad \quad \quad \times \quad 6.7 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad \quad \quad 0.53879 \\ \quad \quad \quad \times \quad 0.9 \\ \hline \end{array}$$

9. Divide, without a calculator.

$$\text{a.} \quad \quad \quad \frac{\quad}{8) 4.72}$$

$$\text{b.} \quad \quad \quad \frac{\quad}{0.4) 0.2532}$$

ANSWER THE REST OF THESE QUESTIONS IN YOUR MATHS PAD

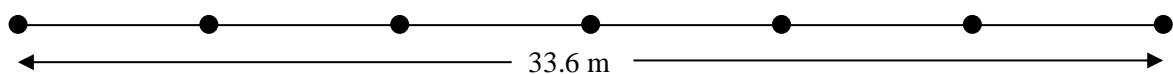
10. a. $\$513.56 + \$827.62 + \$92.23$

b. $\$681.45 - \491.21

c. $\$483.66 \times 8.4$

d. $\$3263.4 \div 9$

11. I need to put in seven fence posts, evenly spaced, along one edge of my property, as shown below. How far apart must the fence posts be?



12. a. A pole that is 8.6 metres long has four shorter poles each 1.24 metres long cut from it. How long is the remaining piece?

b. Nine friends pooled their money to buy a lotto ticket. They won \$1 000 000. If they split the winnings evenly, how much does each receive?

c. A sack of gold is divided into 6 piles weighing 231.7 grams each, plus 8 piles weighing 156.8 grams each. How much does the gold weigh altogether?

Decimals Worksheet 7 - Addition

1. Add these columns of figures, without a calculator.

a. 345.6 123.8 + 165.9 <hr style="width: 100%;"/>	b. 35.96 123.81 + 65.98 <hr style="width: 100%;"/>	c. 0.612 0.181 0.009 + 0.564 <hr style="width: 100%;"/>
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2. Add these columns of figures, without a calculator.

a. 76.6 123.83 + 23165.9 <hr style="width: 100%;"/>	b. 1.16 23.8 + 5.48 <hr style="width: 100%;"/>	c. 0.0012 0.0019 0.009 + 0.0040 <hr style="width: 100%;"/>
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3. Add these figures, without a calculator.

a. $54.04 + 143.16 + 45.67$

.....

b. $45.23 + 67.09 + 5.967 + 12.8$

.....

4. Below are Joshua's weekly earnings for the last six weeks. What were his total earnings?

Week	Earnings
1	\$456.09
2	\$512.54
3	\$397.15
4	\$403.05
5	\$617.92
6	\$550.23

5. A triangle has sides of length 23.6 cm, 56.8 cm and 41.9 cm. What is its perimeter?

.....

