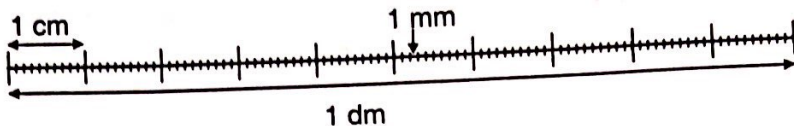


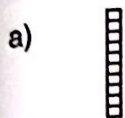
NS5-100: Decimals (Review)

The size of a unit of measurement depends on which unit has been selected as the whole.

A millimetre is a **tenth** of a centimetre, but it is only a **hundredth** of a decimetre.

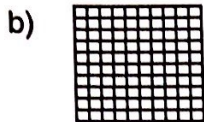


1. Draw a picture in the space provided to show 1 tenth of each whole.



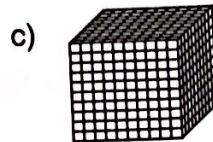
1 whole

1 tenth



1 whole

1 tenth



1 whole

1 tenth

2. Write each measurement as a fraction then as a decimal.

a) $1 \text{ cm} = \frac{1}{10} \text{ dm} = .1 \text{ dm}$

b) $100 \text{ cm} = \boxed{} \text{ dm} = \underline{\hspace{2cm}} \text{ dm}$

c) $1 \text{ mm} = \boxed{} \text{ cm} = \underline{\hspace{2cm}} \text{ cm}$

d) $16 \text{ mm} = \boxed{} \text{ cm} = \underline{\hspace{2cm}} \text{ cm}$

e) $77 \text{ mm} = \boxed{} \text{ dm} = \underline{\hspace{2cm}} \text{ dm}$

f) $83 \text{ cm} = \boxed{} \text{ m} = \underline{\hspace{2cm}} \text{ m}$

3. Add by first changing the smaller unit into a decimal in the larger unit.

a) $4 \text{ cm} + 9.2 \text{ dm} = 0.4 \text{ dm} + 9.2 \text{ dm} = 9.6 \text{ dm}$

b) $6 \text{ cm} + 2.9 \text{ dm} = \underline{\hspace{4cm}}$

c) $9 \text{ mm} + 8.4 \text{ cm} = \underline{\hspace{4cm}}$

d) $33 \text{ cm} + 1.64 \text{ m} = \underline{\hspace{4cm}}$

4. What amount is represented by the tenths digits?

a) 7.52 m 5 dm

b) $\$6.29$ 2

c) 2.32 m 3

d) 3.7 million 7

e) 2.8 thousand 8

f) 5.35 dm 3

5. Round each decimal to the nearest tenth.

HINT: Underline the hundredths digit first. It will tell you whether you round up or down.

a) .25

b) .32

c) .68

d) 1.35

6. Round each decimal to the nearest whole number. HINT: Underline the tenths digit first.

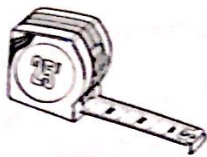
a) 3.25

b) 4.13

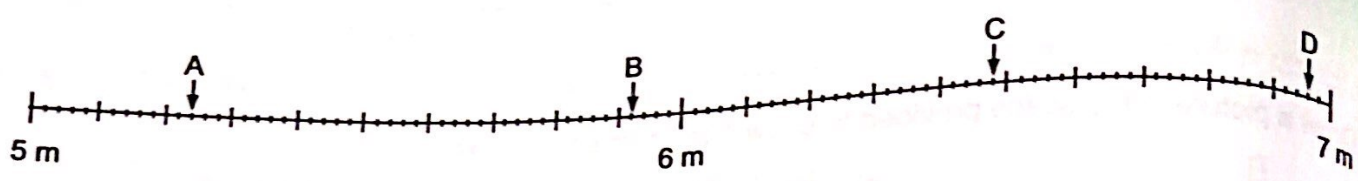
c) 2.95

d) 8.3

NS5-100: Decimals (Review) (continued)



7. The diagram shows a section of measuring tape.
Round each measurement to the nearest tenth of a metre.
Write your answer in words.



A: Five and two tenths

B: _____

C: _____

D: _____

8. Write a decimal for each description.

a) Between 3.52 and 3.57: _____

b) Between 1.70 and 1.80: _____

c) Between 12.65 and 12.7: _____

d) Between 2.6 and 2.7: _____

Add.

a) $3000 + 200 + 7 + 0.02 =$ _____

b) $10000 + 500 + 20 + 0.1 + 0.05 =$ _____

c) $6000 + 300 + 8 + 0.1 =$ _____

d) $400 + 7 + .02 =$ _____

Write < or > to show which decimal is greater.

a) 3.7 3.5

b) 2.32 2.37

c) 1.7 1.69

d) 0.5 0.55

1. If you divide a number by 10, the result is 12.9.
What was the original number? Explain.

2. The Olympic gold medal throw for the shot put in 2004 was 21.16 m.
The bronze throw was 21.07 m.

a) Was the difference in the throws more or less than 0.1 m?

b) Round both throws to the nearest tenth.
What is the difference in the rounded amounts?

c) Make up two throws which would round to the same number (when rounded to the tenths).

d) Why are Olympic shot put throws measured so precisely?



Answer the following questions in your notebook.

1. Giant Kelp is the fastest growing ocean plant. It can grow 0.67 m in a day. How much could it grow in a week?

2. Lichen grows slowly at a rate of 3.4 mm a year. Could it grow 1 cm in 3 years?

3. How much do 7 books cost at \$8.99 per book?



4. Under which deal do you pay less for 1 pen: 4 pens for \$2.96 or 6 pens for \$4.99?

5. On a map, 1 cm represents 15 km. Two towns are 2.3 cm apart on the map. How far apart are the towns?

$$\begin{array}{r} 6.42 \\ + 7.19 \\ \hline 78.32 \end{array}$$


Tim added the numbers on his calculator.





What mistake do you think Tim made pressing the buttons on the calculator?

7. \$0.45 means 4 dimes and 5 pennies. Why do we use decimal notation for money? What is a dime a tenth of? What is a penny a hundredth of?



8. Here are the greatest lengths of some sea creatures.

- a) How much longer than the great white shark is the blue whale?
- b) About how many times longer than the turtle is the great white shark?
- c) About how long would 3 ocean sunfish be if they swam in a row? 

Animal	Length (m)
 Blue Whale	34
 Great White Shark	7.9
 Pacific Leather Back Turtle	2.1
 Ocean Sun Fish	2.9