

## Maths Work 4/5/20 – 8/5/20

**Monday:** Estimation and Measuring sheet. Pick items around your house to measure. Make an estimate of how long the item is and then get the correct measurement.

**Tuesday:** Pg.34 Q 3, Q4, Q5

**Wednesday:** Pg.35 Q1, Q2, Q3, Q4

**Thursday:** Pg.35 Q7 Q8 Pg.36 Q1

**Friday:** Pg.36 Q2 Q6 Q7 Q8

# Estimating Length

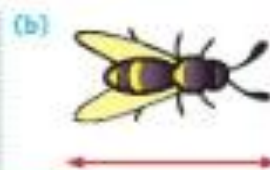
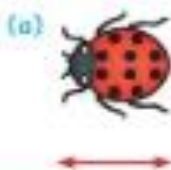
Estimate the length, in centimetres, of objects in the classroom.

Record your estimates in the table below.

Item	Estimate

# Chapter 18: Length

1. Find each length in millimetres.



2. Estimate and then measure to complete the table.

	Estimate	Actual (mm)	Actual (cm and mm)
(a) Length of your pencil sharpener			
(b) Width of your pencil			
(c) Length of your pen			
(d) Width of your pencil case			

3. Fill in the missing lengths.

- (a)  $27\text{mm} = \underline{\quad}\text{cm } \underline{\quad}\text{mm}$     (b)  $42\text{mm} = \underline{\quad}\text{cm } \underline{\quad}\text{mm}$     (c)  $5\text{cm } 3\text{mm} = \underline{\quad}\text{mm}$   
 (d)  $\underline{\quad}\text{mm} = 0\text{cm } 9\text{mm}$     (e)  $\underline{\quad}\text{cm } \underline{\quad}\text{mm} = 62\text{mm}$     (f)  $6\text{mm} = \underline{\quad}\text{cm } \underline{\quad}\text{mm}$

4. Complete the table.

	(a)	(b)	(c)	(d)	(e)	(f)
Millimetres	39mm		7mm			8mm
Fraction (cm)	$3\frac{9}{10}\text{cm}$			$5\frac{1}{10}\text{cm}$		
Decimal (cm)	$\underline{\quad}\text{cm}$	4.3cm			0.4cm	

5. Add or subtract.

- (a)  $\begin{array}{r} \text{cm} \quad \text{mm} \\ 4 \quad 9 \\ + 2 \quad 4 \\ \hline \end{array}$     (b)  $\begin{array}{r} 3 \cdot 2 \text{ cm} \\ - 1 \cdot 4 \text{ cm} \\ \hline \end{array}$     (c)  $\begin{array}{r} 9 \cdot 7 \text{ cm} \\ - 6 \cdot 5 \text{ cm} \\ \hline \end{array}$     (d)  $\begin{array}{r} \text{cm} \quad \text{mm} \\ 20 \quad 6 \\ - 14 \quad 7 \\ \hline \end{array}$     (e)  $\begin{array}{r} 19 \cdot 6 \text{ cm} \\ + 20 \cdot 7 \text{ cm} \\ \hline \end{array}$

- (f)  $16\text{cm } 3\text{mm} + 9\text{mm}$     (g)  $17\text{cm} - 43\text{mm}$     (h)  $34\text{cm } 8\text{mm} + 15\text{cm}$     (i)  $42\text{cm} - 99\text{mm}$

6. Draw lines of the following lengths in your copybook.

- (a) 6cm 5mm    (b) 4.9cm    (c)  $3\frac{4}{10}\text{cm}$     (d) 0.7cm    (e) 8mm    (f)  $3\frac{8}{10}\text{cm}$

## Length

1. Multiply or divide the following lengths.

(a)  $5 \overline{) 13.5\text{cm}}$

(b)  $4.7\text{mm} \times 8$

(c)  $4 \overline{) 31.2\text{cm}}$

(d)  $18\text{cm } 3\text{mm} \times 6$

(e)  $6 \overline{) 45.6\text{cm}}$

(f)  $13.7\text{cm} \times 6$

(g)  $51.1\text{cm} \div 7$

(h)  $67\text{cm } 5\text{mm} \div 9$

(i)  $93.6\text{cm} \div 4$

(j)  $39\text{cm } 6\text{mm} \times 5$

2. A person's hair grows about 14cm 5mm in a single year. If you did not cut your hair for four years, how much would you expect it to grow? \_\_\_\_\_



3.  A roll of nine stamps is 21.6cm long. What is the height of one of the stamps? \_\_\_\_\_ cm

4. A snail can move 78cm in one minute. How far can it travel in one second? \_\_\_\_\_ cm



5. List four things you would measure with each of these measuring tools.

(a)



\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(b)



\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(c)



\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

(d)



\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

6. Make an estimate of the following.

(a) length of a football pitch

(b) length of an eyelash

(c) height of a carton of milk

(d) height of a double-decker bus

(e) length of a car

(f) length of your arm

(g) circumference of a football

(h) height of a door

(i) width of a television

7. Fill in the missing amounts.

(a)  $2\text{m } 9\text{cm} = \underline{\hspace{1cm}} \text{cm}$

(b)  $48\text{cm} = \underline{\hspace{1cm}} \text{m } \underline{\hspace{1cm}} \text{cm}$

(c)  $\underline{\hspace{1cm}} \text{cm} = 3\text{m } 87\text{cm}$

(d)  $302\text{cm} = \underline{\hspace{1cm}} \text{m } \underline{\hspace{1cm}} \text{cm}$

(e)  $\underline{\hspace{1cm}} \text{cm} = 9\text{m } 90\text{cm}$

(f)  $2\text{m } 7\text{cm} = \underline{\hspace{1cm}} \text{cm}$

(g)  $\underline{\hspace{1cm}} \text{cm} = 6\text{m } 6\text{cm}$

(h)  $5\text{m } 99\text{cm} = \underline{\hspace{1cm}} \text{cm}$

(i)  $908\text{cm} = \underline{\hspace{1cm}} \text{m } \underline{\hspace{1cm}} \text{cm}$

8. Complete the table.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Centimetres		470cm			602cm		
Fraction (m)	$3\frac{9}{100}\text{m}$			$8\frac{70}{100}\text{m}$		$\frac{81}{100}\text{m}$	
Decimal (m)			3.25m				3.6m

## Length

1. Calculate each length.

- (a)  $465\text{cm} - 2\text{m } 97\text{cm}$     (b)  $7.95\text{m} + 3$     (c)  $652\text{cm} + 1\text{m } 98\text{cm}$     (d)  $3\text{m } 9\text{cm} \times 12$   
 (e)  $8\text{m } 5\text{cm} + 5$     (f)  $4\text{m } 8\text{cm} + 3.93\text{cm}$     (g)  $9\text{m} - 3\text{m } 82\text{cm}$     (h)  $2\text{m } 73\text{cm} \times 5$

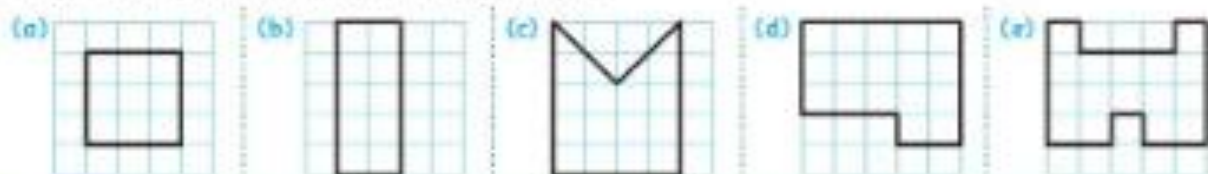
2. Fill in the missing measurements to complete the table.

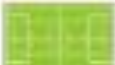
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
Metres		7,048m			3,870m		
Kilometres and metres	8km 291m						
Fraction (km)			$3\frac{51}{1000}$ km			$6\frac{440}{1000}$ km	
Decimal (km)				8.07km			9.3km

3. Calculate as kilometres.

- (a)  $3.978\text{km} - 1\text{km } 45\text{m}$     (b)  $5.409\text{km} \times 7$     (c)  $6\text{km } 75\text{m} + 5$     (d)  $99\text{m} + 3.78\text{km}$   
 (e)  $6\text{km } 496\text{m} + 7$     (f)  $6.2\text{km} - 41\text{m}$     (g)  $253\text{m} \times 7$     (h)  $4.05\text{km} + 5$

4. Measure the perimeter of each of these shapes.




5.  A football pitch is 32m wide. It is exactly the same distance from the corner flag to the halfway line. What is the perimeter of the pitch? \_\_\_\_\_ m

6. The perimeter of a rectangular park is 9km 30m. If the park is 1.437km wide, what is its length? \_\_\_\_\_ km

7. A picture frame has a width of 96mm and a perimeter of 0.62m. What is its height? \_\_\_\_\_ mm



8. Solve these length puzzles.

(a)  A car travelled at an average speed of 60km per hour on a 210km journey. If it left at 10:15, what time did it arrive?

(b) The sides of a triangle measure  $4\frac{1}{5}$  cm, 39mm and 0.02m. What is its perimeter? \_\_\_\_\_ cm

(c) A submarine was 1.09km below the surface of the water. If it rose 473m from that depth, how far from the surface would it be? \_\_\_\_\_ m

**Challenge** Tim was asked to multiply 7.362m by 9. Instead he divided it by 9. By how much was his answer too small? \_\_\_\_\_ m