



Year 2 Mathematics

Length: Centimetres (cm) - Worksheet 31

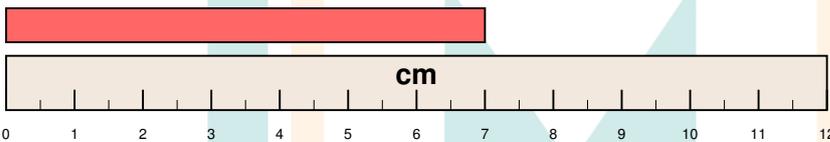
Measuring with Centimetres

Name: _____ Date: _____

Section 1: Reading a Ruler (Fluency)

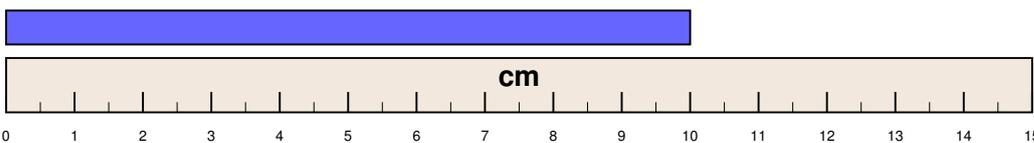
Look at the rulers. Measure how long each object is.

Question 1: Look at the red pencil. How many centimetres (cm) long is it?



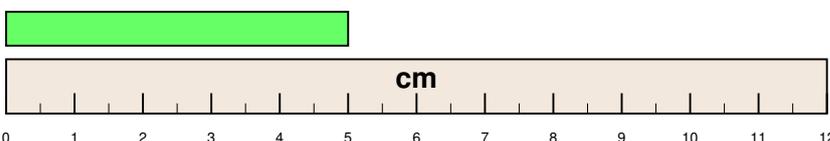
Answer: _____ cm

Question 2: How long is the blue bar?



Answer: _____ cm

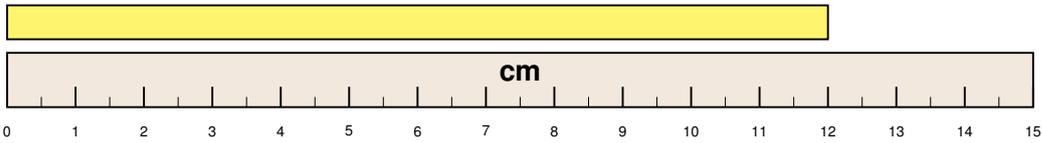
Question 3: Measure the green object:





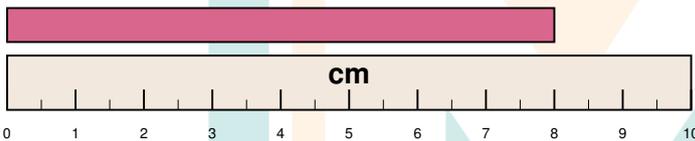
Answer: _____ cm

Question 4: How long is the yellow rectangle?



Answer: _____ cm

Question 5: Measure this purple object:



Answer: _____ cm

Question 6: What unit are we using to measure these objects?

Answer: _____

Length Leader Ruler!



Why did the ruler go to bed? Because it wanted to MEASURE its sleep!

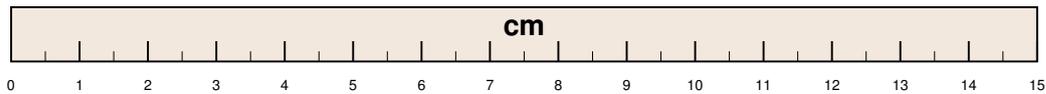


Section 2: Drawing Lengths (Reasoning)

Use the ruler as a guide. Draw objects of the given lengths.

Question 7: Draw a line that is 5 cm long.

Use this ruler to help you:



Question 8: Draw a worm that is 8 cm long.



Question 9: Draw a rectangle that is 10 cm wide.



Question 10: Draw a pencil that is 12 cm long.

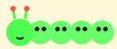




Question 11: Draw a line that is 3 cm long.



Creative Drawing Champion!



Why was the caterpillar good at measurement? Because it measured everything in INCH-worms!

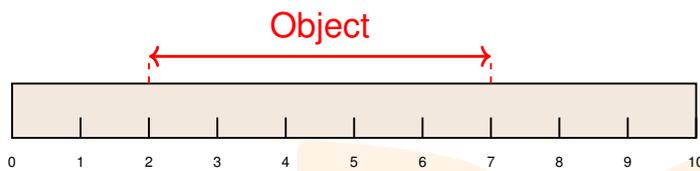




Section 3: Tricky Measurements Challenge

Think carefully about these measurement problems!

Question 12: An object starts at 2 cm and ends at 7 cm on the ruler. How long is the object?



Answer: _____ cm

Question 13: If a pencil is 10 cm long and I sharpen it by 2 cm, how long is it now?

Answer: _____ cm

Question 14: I have two pencils. One is 8 cm and the other is 12 cm. What is the difference in length?

Answer: _____ cm

Question 15: An eraser is 4 cm long. If I put two erasers end-to-end, what is the total length?

Answer: _____ cm

Question 16: A bug crawls from 3 cm to 9 cm on a ruler. How far did it crawl?



Answer: _____ cm

Question 17: True or False: A 15 cm ruler can measure objects longer than 15 cm.

Circle your answer:

TRUE

FALSE



Measurement Master!

What did the pencil say to the ruler? "You really MEASURE up!"





Answer Key

Worksheet 31: Measuring with Centimetres

Section 1: Reading a Ruler

1. **7 cm** (the red pencil extends from 0 to 7)
2. **10 cm** (the blue bar extends from 0 to 10)
3. **5 cm** (the green object extends from 0 to 5)
4. **12 cm** (the yellow rectangle extends from 0 to 12)
5. **8 cm** (the purple object extends from 0 to 8)
6. **Centimetres (cm)** (the unit we use for measuring these small objects)

Section 2: Drawing Lengths

7. Drawing should show a line **5 cm long**
8. Drawing should show a worm approximately **8 cm long**
9. Drawing should show a rectangle **10 cm wide**
10. Drawing should show a pencil approximately **12 cm long**
11. Drawing should show a line **3 cm long**

Section 3: Tricky Measurements Challenge

12. **5 cm** (

$$7 - 2 = 5$$

cm)



13. **8 cm** (

$$10 - 2 = 8$$

cm after sharpening)

14. **4 cm** (

$$12 - 8 = 4$$

cm difference)

15. **8 cm** (

$$4 + 4 = 8$$

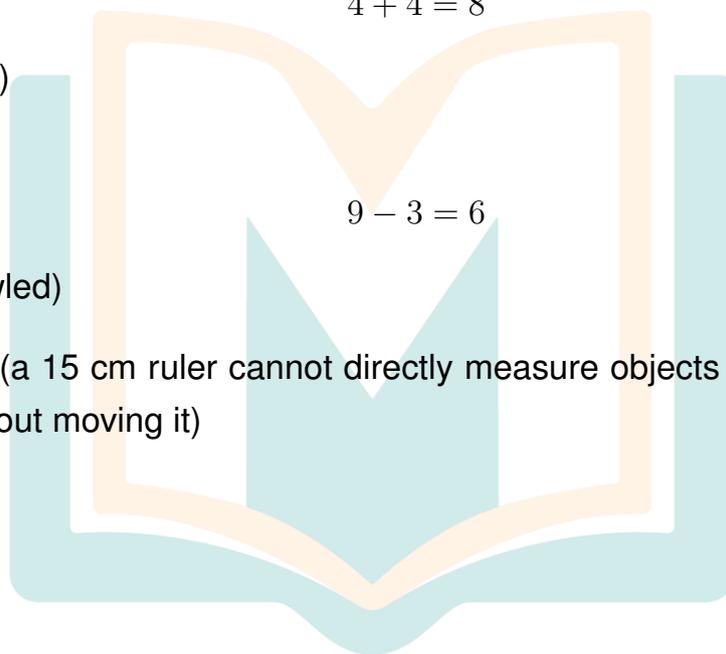
cm total)

16. **6 cm** (

$$9 - 3 = 6$$

cm crawled)

17. **FALSE** (a 15 cm ruler cannot directly measure objects longer than 15 cm without moving it)





Year 2 Mathematics

Length: Metres & Comparing - Worksheet 32

Metres and Comparing Lengths

Name: _____ Date: _____

Section 1: Centimetres or Metres? (Fluency)

Choose the best unit: cm or m?

Question 1: Would you measure a bus in **cm** or **m**?

Answer: _____

Question 2: Would you measure a pencil in **cm** or **m**?

Answer: _____

Question 3: Would you measure the height of a door in **cm** or **m**?

Answer: _____

Question 4: Would you measure an eraser in **cm** or **m**?

Answer: _____



Question 5: Would you measure a classroom in **cm** or **m**?

Answer: _____

Question 6: Would you measure your shoe in **cm** or **m**?

Answer: _____

Question 7: True or False: 1 metre is the same as 100 centimetres.

Circle your answer: TRUE FALSE



Tall Giraffe Champion!

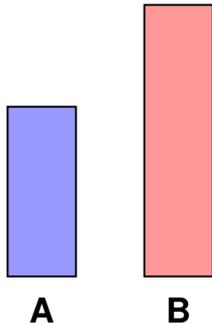
Why did the giraffe use metres? Because it was TOO TALL for centimetres!



Section 2: Comparing Lengths (Reasoning)

Compare the lengths and put them in order.

Question 8: Which bar is taller: A or B?



Answer: Bar _____ is taller.

Question 9: Order these objects from shortest to longest:
Car (4 metres), Pencil (15 cm), Train (50 metres)

Answer: _____

Question 10: Look at these lines. Which is longest?

Line A: _____

Line B: _____

Line C: _____

Answer: Line _____ is longest.

Question 11: A table is 2 metres long. A book is 30 cm long. Which is longer?



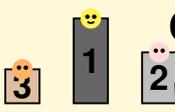
Answer: _____ is longer.

Question 12: Order from shortest to tallest: Child (1 m), Baby (50 cm), Adult (2 m)

Answer: _____

Question 13: Which is shorter: 1 metre or 150 centimetres?

Answer: _____ is shorter.

 **Comparing Champion!**
Why did the numbers stand on podiums? To show who was the TALLEST!



Section 3: Word Problems Challenge

Solve these real-life measurement problems.

Question 14: The door is 2 metres high. My Dad is 180 centimetres tall. Is Dad shorter or taller than the door?

Hint: 2 metres = 200 cm

Answer: Dad is _____ than the door.

Question 15: I have a 30 cm ruler. Can I measure the length of the classroom easily with it?

Circle: YES NO

Why or why not?

Answer: _____

Question 16: A swimming pool is 25 metres long. A pencil is 15 cm long. How much longer is the pool than the pencil?

Answer: Much longer! The pool is measured in _____.

Question 17: Which unit would you use to measure the distance from your house to school?

Circle: centimetres (cm) metres (m)

Question 18: A snake is 3 metres long. A worm is 8 centimetres long. Which is longer?



Answer: The _____ is longer.

Question 19: My pencil case is 25 cm long. My desk is 1 metre long. Which is longer?

Answer: The _____ is longer.

Question 20: True or False: We use metres to measure very long things and centimetres to measure shorter things.

Circle your answer: TRUE FALSE

Measurement Detective!



Why did the detective love measurement? Because every case had to MEASURE up to standards!



Answer Key

Worksheet 32: Metres & Comparing

Section 1: Centimetres or Metres?

1. **metres (m)** (a bus is very long, use metres)
2. **centimetres (cm)** (a pencil is small, use cm)
3. **metres (m)** (a door is tall, use metres)
4. **centimetres (cm)** (an eraser is small, use cm)
5. **metres (m)** (a classroom is large, use metres)
6. **centimetres (cm)** (a shoe is small, use cm)
7. **TRUE** (1 metre = 100 centimetres)

Section 2: Comparing Lengths

8. **Bar B** is taller (it reaches higher)
9. **Pencil, Car, Train** (15 cm, 4 m, 50 m - from shortest to longest)
10. **Line C** is longest (it extends the furthest)
11. **The table** is longer (2 m = 200 cm, which is longer than 30 cm)
12. **Baby, Child, Adult** (50 cm, 1 m = 100 cm, 2 m = 200 cm)
13. **1 metre** is shorter (1 m = 100 cm, which is less than 150 cm)

Section 3: Word Problems Challenge

14. **Dad is shorter** than the door (180 cm is less than 200 cm)



15. **NO**. The classroom is too long to measure easily with a 30 cm ruler (would need to move it many times; metres would be better)
16. Much longer! The pool is measured in **metres** (can't directly compare different units, but pool is much, much longer)
17. **metres (m)** (the distance to school is very long)
18. **The snake** is longer (3 metres = 300 cm, which is much longer than 8 cm)
19. **The desk** is longer (1 metre = 100 cm, which is longer than 25 cm)
20. **TRUE** (metres are for long/tall things, centimetres for shorter things)

Excellent Work, Measurement Experts!

You understand centimetres and metres!