



TABE Math-E

PAXEN

Unit-5 Measurement and Data

Lesson 34

Standard Units

Estimate Measure Metric

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Some graphics may not have copied well during the scan process.

Math-E - Lesson 34 – Estimate Metric

Lesson 34

Estimate Length in Centimeters and Meters

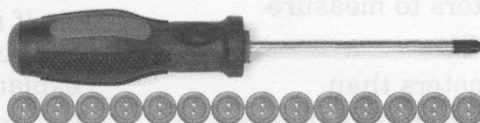
2.MD.3 – Low

You can estimate length using measurements of centimeters and meters.

Example The button is 1 centimeter across. About how long is the screwdriver?

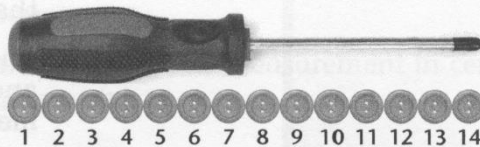


- 1) Use a known measure to estimate an unknown measure.
The button is 1 centimeter. Use the button to estimate the length.



- 2) Estimate the length of the screwdriver by visualizing how many buttons cover the length of the screwdriver.

There are 14 buttons. Each button is equal to 1 centimeter.

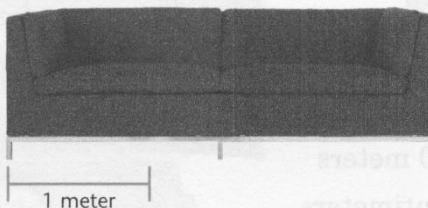


The screwdriver is about 14 centimeters long.

Test Example

1. About how wide is the couch?

- A. 1 m
- B. 2 m
- C. 3 m
- D. 5 m



1. C The blue line represents 1 meter. About 3 blue lines can fit along the width of the couch.

Hint

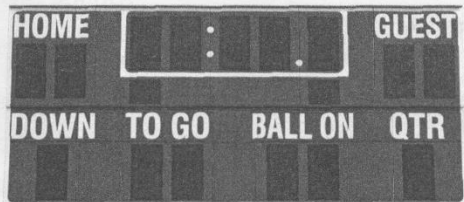
Visualize how many blue lines can be placed in a row along the width of the couch.

Math-E - Lesson 34 – Estimate Metric

Practice

Read each question. Select the correct answer.

- 1 About how wide is the scoreboard?



- A. 400 meters B. 40 meters
C. 4 meters D. 2 meters

- 2 About how tall is the middle coffee cup?

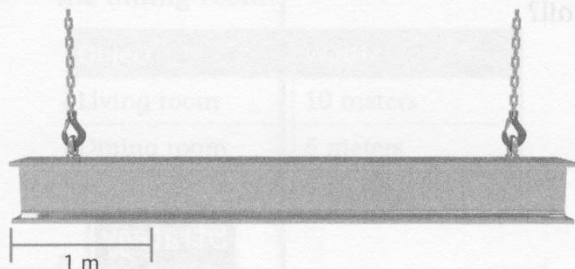


- A. 12 cm B. 10 cm
C. 8 cm D. 6 cm

- 3 Which is the most reasonable estimate of the width of a concert stage?

- A. 100 cm B. 15 m
C. 15 cm D. 1 m

- 4 About how long is the steel beam?

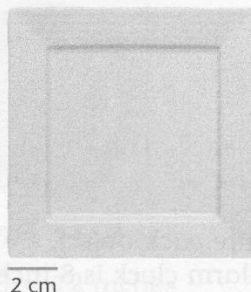


- A. 1 m B. 2 m
C. 4 m D. 7 m

- 5 Which of the following is about 3 meters tall?

- A. eraser B. water bottle
C. laptop D. door

- 6 About how wide is the plate?

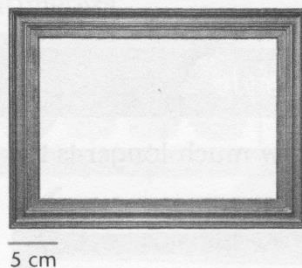


- A. 10 cm B. 6 cm
C. 4 cm D. 2 cm

- 7 About how wide is a cell phone?

- A. 8 m
B. 8 cm
C. 50 cm
D. 5 m

- 8 About how wide is the picture frame?



- A. 5 m
B. 10 cm
C. 15 m
D. 30 cm

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Lesson 34

Estimate Length in Centimeters and Meters

(2.MD.3)

- 1. C.** The blue line represents 1 meter. Four lines can fit along the width of the scoreboard, so the width is 4 meters.
- 2. C.** The small cup is 6 cm and the large cup is 10 cm. The middle cup must measure between 6 cm and 10 cm.
- 3. B.** The most reasonable width of a concert stage is 15 m because the other measurements are too small.
- 4. C.** The meter stick represents 1 meter. Since approximately 4 meter sticks can fit along the length of the beam, the beam is about 4 meters long.
- 5. D.** A door could be about 3 meters tall. The other objects are too small to have a height of 3 meters.
- 6. A.** The blue line represents 2 cm. The width of the plate is about 5 blue lines long, so the width is about 10 centimeters long.
- 7. B.** The only reasonable width for a cell phone is 8 cm because the other measurements are too large.
- 8. D.** The blue line represents 5 cm. Since it takes 6 blue lines to cover the width of the picture frame, the width is 30 cm.

Math-E - Practice 34 – Estimate Metric

Practice 34

Estimate Length in Centimeters and Meters

2.MD.3 – Low

1 About how wide is the apple?



2 cm

- A. 80 cm
- B. 40 cm
- C. 8 cm
- D. 4 cm

2 Which of the following is about two meters high?

- A. refrigerator
- B. flagpole
- C. trash can
- D. nightstand

Which is the most reasonable estimate of the length of a clothes hanger?

- A. 400 cm
- B. 40 cm
- C. 8 cm
- D. 4 cm

4 About how long is the house?



4 m

- A. 3 m
- B. 4 m
- C. 12 m
- D. 21 m

5 Which of the following is about 15 meters long?

- A. semitrailer
- B. clipboard
- C. welcome mat
- D. candlestick

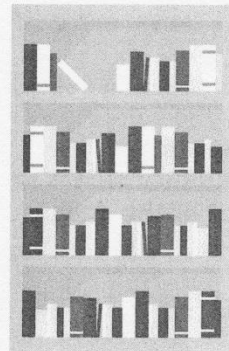
6 Which two measurements are about one meter?

- A. the height of a vase
- B. the length of a guitar
- C. the width of dental floss
- D. the length of a garbage truck
- E. the height of a bowling pin
- F. the length of a baseball bat

7 Which is the most reasonable estimate of the length of a subway car?

- A. 15 m
- B. 5 m
- C. 500 cm
- D. 150 cm

8 About how long is the bookshelf?



25 cm

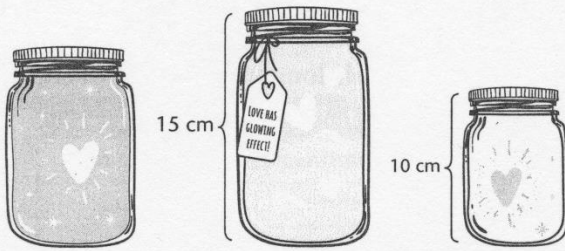
- A. 25 cm
- B. 50 cm
- C. 1 m
- D. 2 m

9 Which two measurements are about one centimeter?

- A. the height of a doll
- B. the width of a pencil
- C. the length of a staple
- D. the width of sunglasses
- E. the length of a hammer
- F. the height of a light bulb

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- 10 About how tall is the medium-sized jar on the left?



- A. 5 cm B. 13 cm
C. 15 cm D. 25 cm

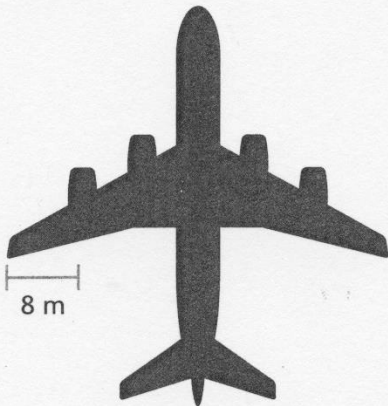
- 11 Ping Ping intends to buy a new rug for her hallway. Which statement most likely explains why Ping Ping uses meters to measure the length of her hallway?

- A. Hallways are generally shorter than a meter.
B. Hallways are generally at least 1 meter long.
C. Hallways are generally shorter than a centimeter.
D. Hallways are generally at least 1 centimeter long.

- 12 Which is the most reasonable estimate of the height of a movie theater screen?

- A. 4 cm B. 40 cm
C. 1 m D. 4 m

- 13 About how long is the wingspan of the airplane?



- A. 8 m B. 16 m
C. 24 m D. 40 m

- 14 Which is the most reasonable estimate of the length of a pillow?

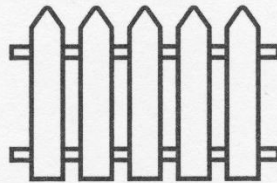
- A. 10 cm
B. 60 cm
C. 2 m
D. 4 m

- 15 Katarin lost her bracelet on the beach. About how wide is the area she needs to search?



- A. 100 cm
B. 200 cm
C. 3 m
D. 6 m

- 16 Akshaya spaces her fence posts two meters apart. About how long is this section of fencing?



- A. 4 m
B. 6 m
C. 10 m
D. 12 m

- 17 Which of the following is about eight centimeters long?

- A. credit card
B. board game
C. textbook
D. tissue box

Math-E - Practice 34 – Estimate Metric

Practice 34

Estimate Length in Centimeters and Meters

pp. 8–9

(2.MD.3)

1. C. The blue line represents 2 centimeters. The apple is about four blue lines wide, so the width is about 8 centimeters wide: $2 \times 4 = 8$.
2. A. A refrigerator could be about 2 meters tall. A trash can and nightstand are too short to have a height of 2 meters. A flagpole is too tall to have a height of 2 meters.
3. B. The most reasonable length of a clothes hanger is 40 centimeters. The other measurements are too small or too large.
4. C. The blue line represents 4 meters. The house is about three blue lines long, so the length is about 12 meters: $3 \times 4 = 12$.
5. A. A semitrailer is about 15 meters long. A clipboard, welcome mat, and candlestick are too small to have a length of 15 meters.
6. B, F. A guitar and a baseball bat are about one meter long.
7. A. A subway car is about 15 meters. Five meters is equal to 500 centimeters. An estimate of 150 centimeters is too small.
8. C. The blue line represents 25 centimeters. Four lines can fit along the length of the bookshelf, so the length is about 100 centimeters; $100 \text{ cm} = 1 \text{ m}$. The bookshelf is about 1 meter long.
9. B, C. The width of a pencil and the length of a staple are about 1 centimeter.
10. B. The smallest jar is 10 centimeters, and the largest jar is 15 centimeters. The medium-sized jar must measure between 10 centimeters and 15 centimeters.
11. B. A meter is a larger unit than a centimeter. Ping Ping most likely uses meters because hallways are generally at least 1 meter long. Centimeters are too small to measure a hallway.
12. D. A movie theater screen is about 4 meters high. The other measurements are too small.
13. D. The blue line represents 8 meters. The wingspan is about five blue lines, so the length of the wingspan is about 40 meters: $5 \times 8 = 40$.
14. B. A pillow is about 60 centimeters long. Meters are too large.
15. D. The blue line represents 1 meter. The beach is about six blue lines wide, so the width is about 6 meters. Katarin needs to search an area about 6 meters wide.
16. C. The blue line represents 2 meters. The fence is about five blue lines long, so the fencing is about 10 meters long: $2 \times 5 = 10$.
17. A. A credit card is about 8 centimeters long. The other objects are too large.