



TABE Math-E

PAXEN

Unit-5 Measurement and Data

Lesson 32

Standard Units

Estimate Feet and Inches

Revised: October 16, 2023

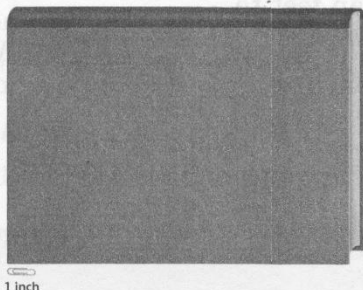
Nolan Tombouliau

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

Math-E - Lesson 32 – Estimate Measures

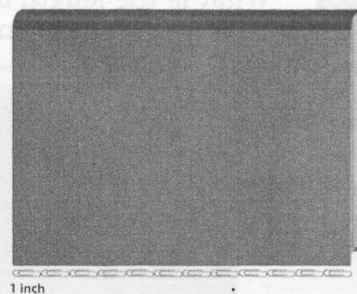
You can estimate length using measurements of inches and feet.

Example The paper clip is 1 inch long. About how long is the book?



1) Use a known measure to estimate an unknown measure.

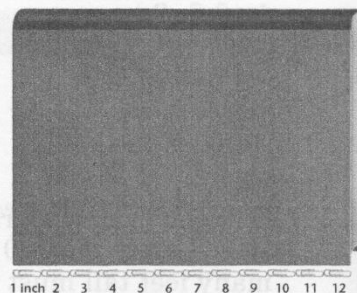
The paper clip is 1 inch. Use the paper clip to estimate the length.



2) Estimate the length of the book by visualizing how many paper clips cover the book.

There are 12 paper clips. Each paper clip is equal to 1 inch.

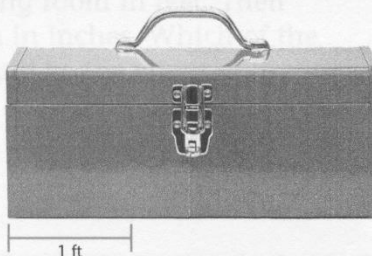
The book is about 12 inches long.



Test Example

1. About how wide is the toolbox?

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



1. C The blue line represents 1 foot. About three blue lines can be lined up along the bottom of the toolbox. So, the toolbox is about 3 feet long.

Hint

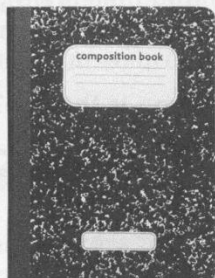
Visualize how many blue lines can be lined up along the bottom of the toolbox.

Math-E - Lesson 32 – Estimate Measures

Practice

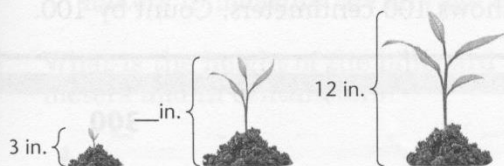
Read each question. Select the correct answer.

- 1 About how tall is the composition book?



- A. 20 in. B. 16 in.
C. 8 in. D. 2 in.

- 2 About how tall is the middle plant?

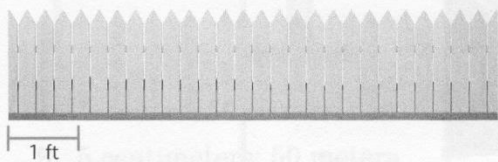


- A. 3 in. B. 9 in.
C. 12 in. D. 15 in.

- 3 Which measurement is the most reasonable estimate of the width of a basketball court?

- A. 50 ft B. 50 in.
C. 5 ft D. 5 in.

- 4 About how long is the fence?

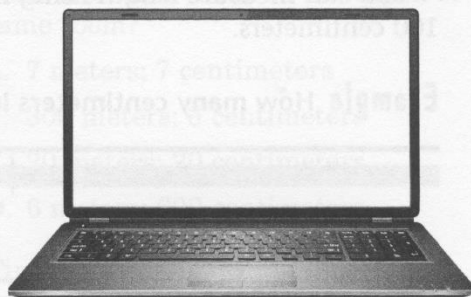


- A. 25 ft B. 20 ft
C. 7 ft D. 4 ft

- 5 Which object has a length of about 7 feet?

- A. book B. pencil
C. football field D. sofa

- 6 About how wide is Amir's laptop?

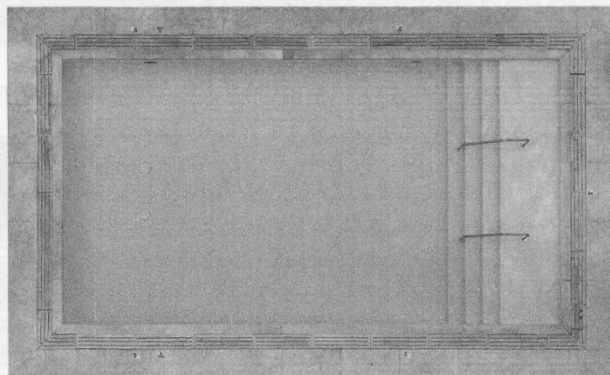


- A. 3 in. B. 5 in.
C. 10 in. D. 24 in.

- 7 Which measurement is the most reasonable estimate of the height of an office chair?

- A. 40 ft B. 10 ft
C. 4 in. D. 40 in.

- 8 Tom wants to put a cover on his swimming pool. About how long does the cover need to be to cover the pool?



- A. 27 ft B. 27 in.
C. 80 in. D. 80 ft

Math-E - Lesson 32 – Estimate Measures

Lesson 32

Estimate Length in Inches and Feet

(2.MD.3)

- 1. C.** The blue line represents 1 inch. The height of the composition book is about 8 inches because the height is equal to about 8 blue lines.
- 2. B.** The small plant is 3 in. and the large plant is 12 in. The middle plant must measure between 3 in. and 12 in.
- 3. A.** The most reasonable width of a basketball court is 50 ft because the other measurements are less than the height of most adults.
- 4. C.** The blue line represents 1 foot. The length of the fence is about 7 feet because the length is equal to about 7 blue lines.
- 5. D.** A sofa could be 7 feet. A book and a pencil are too small to be 7 feet, and a football field is too large to be 7 feet.
- 6. C.** The blue line represents 1 inch. The width of the laptop is about 10 inches because the width is equal to about 10 blue lines.
- 7. D.** The chair could not reasonably measure 40 feet, 10 feet, or 4 inches.
- 8. A.** The blue line represents 1 foot. The length of the swimming pool is about 27 feet because the length is equal to about 27 blue lines.

Math-E - Practice 32 – Estimate Measures

Practice 32

Estimate Length in Inches and Feet

2.MD.3 – Low

- 1 About how tall is the tree?



- A. 4 ft B. 14 ft
C. 36 ft D. 60 ft

- 2 Which is the most reasonable measurement for the height of a standard front door of a house?

- A. 21 ft B. 15 ft
C. 7 ft D. 2 ft

- 3 About how long is the pencil?

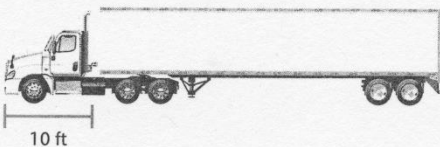


- A. 6 in. B. 15 in.
C. 20 in. D. 30 in.

- 4 Which object has a length of about 11 inches?

- A. credit card B. human foot
C. dining table D. bus

- 5 Anthony parks his tractor-trailer at a gas station. About how long is the tractor-trailer?

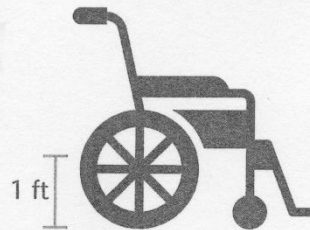


- A. 10 ft B. 20 ft
C. 30 ft D. 50 ft

- 6 What is the most reasonable estimate for the length of a toothbrush?

- A. 2 in. B. 7 in.
C. 15 in. D. 28 in.

- 7 Ariadna stores her wheelchair below a table. About how high is the wheelchair when it is fully upright?



- A. 3 ft B. 7 ft
C. 10 ft D. 14 ft

- 8 Which is the most reasonable estimate of the height of a coffee mug?

- A. 1 inch B. 5 inches
C. 3 feet D. 4 feet

- 9 About how tall is the house?



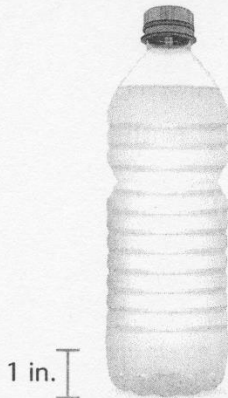
- A. 6 ft B. 12 ft
C. 24 ft D. 48 ft

- 10 Which two objects have a height of about 15 inches?

- A. backpack
B. bowling pin
C. cell phone
D. refrigerator
E. garage door
F. streetlamp

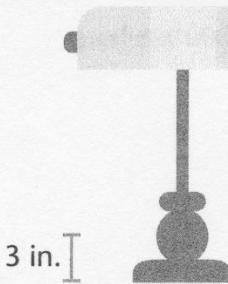
Math-E - Practice 32 – Estimate Measures

- 11 Mirit brings a water bottle on a long walk. About how tall is the water bottle?



- A. 3 in. B. 5 in.
C. 8 in. D. 14 in.
- 12 Which is the most reasonable estimate for the length of a commercial passenger airplane?
- A. 7 ft B. 20 ft
C. 40 ft D. 140 ft

- 13 Phineas places a lamp on his nightstand. About how tall is the lamp?



- A. 4 in. B. 7 in.
C. 18 in. D. 29 in.
- 14 Which object has a height of about 100 feet?
- A. baseball bat B. dog collar
C. fishing pole D. water tower

- 15 Etsuyo buys a new television for her house. About how tall is the television?

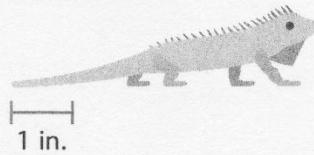


- A. 8 in. B. 20 in.
C. 32 in. D. 49 in.

- 16 Which two objects have a length of about 8 feet?

- A. banana
B. couch
C. cruise ship
D. mattress
E. potato
F. hammer

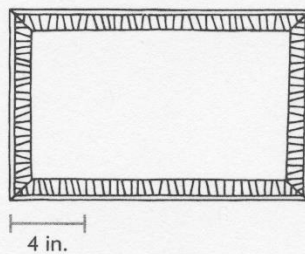
- 17 Roland sees a lizard on his balcony. About how long is the lizard?



- A. 5 in. B. 10 in.
C. 14 in. D. 23 in.
- 18 Which object has a length of about 350 feet?

- A. car
B. envelope
C. snake
D. soccer field

- 19 Mauricio hangs a picture in his room. About how long is the picture frame?



- A. 4 in. B. 8 in.
C. 16 in. D. 26 in.
- 20 What is the most reasonable estimate for the height of a kitchen counter?

- A. 5 inches
B. 13 inches
C. 3 feet
D. 10 feet

Math-E - Practice 32 – Estimate Measures

Practice 32

Estimate Length in Inches and Feet

pp. 4–5

(2.MD.3)

1. B. The blue line represents 2 feet. The height of the tree is equal to about 7 blue lines, or about 14 feet: $2 \times 7 = 14$ feet.
2. C. The most reasonable estimate is 7 feet. An average adult could fit through a 7-foot door. Ceilings are usually 8 or 9 feet, so the door would not be higher than most ceilings.
3. A. The blue line represents 1 inch. The length of the pencil is about 6 blue lines, or about 6 inches.
4. B. A human foot could be 11 inches. A credit card is too short to be 11 inches, and a dining table and bus are too long to be 11 inches.
5. D. The blue line represents 10 feet. The length of the tractor-trailer is about 5 blue lines, or about 50 feet: $10 \times 5 = 50$ feet.
6. B. The most reasonable estimate is 7 inches because a toothbrush is about the length of a human hand.
7. A. The blue line represents 1 foot. The height of the wheelchair is about 3 blue lines, or about 3 feet.
8. B. The most reasonable estimate is 5 inches because the height of a coffee mug is close to the width of a human hand.
9. C. The blue line represents 6 feet. The height of the house is about 4 blue lines, or about 24 feet: $6 \times 4 = 24$ feet.
10. A, B. A bowling pin and a backpack could be 15 inches. A cell phone is too short to be 15 inches. A refrigerator, a streetlamp, and a garage door are too tall to be 15 inches.
11. C. The blue line represents 1 inch. The height of the water bottle is about 8 blue lines, or about 8 inches.
12. D. The most reasonable estimate is 140 feet because an average passenger airplane has over 20 rows of seats plus the length of parts without seats. Forty feet would be too short to include all these features.
13. C. The blue line represents 3 inches. The height of the lamp is about 6 blue lines, or about 18 inches: $3 \times 6 = 18$ inches.
14. D. A water tower could be 100 feet. A baseball bat, a dog collar, and a fishing pole are too short to be 100 feet.
15. B. The blue line represents 5 inches. The height of the television is about 4 blue lines, or about 20 inches: $5 \times 4 = 20$ inches.
16. B, D. A couch and a mattress could be 8 feet. A banana, potato, and hammer are too short to be 8 feet, and a cruise ship is too long to be 8 feet.
17. A. The blue line represents 1 inch. The length of the lizard is about 5 blue lines, or about 5 inches.
18. D. A soccer field could be 350 feet. A car, an envelope, and a snake are too short to be 350 feet.
19. C. The blue line represents 4 inches. The length of the picture frame is about 4 blue lines, or about 16 inches: $4 \times 4 = 16$ inches.
20. C. The most reasonable estimate is 3 feet because a kitchen counter is about half the height of an adult.