

Center Activity Answer Key

Activity 2.33

Estimate Lengths

★ Check Understanding

Answers will vary. Sample answer: My estimate is 6 inches. I know a quarter is about an inch across. I think it takes about 6 quarters to equal the length of a pencil.

Game Board

Toss 1: 1 centimeter: rice, raisin

Toss 2: 7 inches: paintbrush, fork

Toss 3: 2 feet: skunk

Toss 4: 5 meters: canoe, giraffe

Toss 5: 100 meters: tall building, football field

★★ Check Understanding

Answers will vary. Sample answer: My estimate is 5 inches. I know a quarter is about an inch across. I think it takes about 5 quarters to equal the length of a pair of scissors.

Game Board

Toss 1: 2 centimeters: stamp, nickel

Toss 2: 6 inches: carrot, dollar bill

Toss 3: 1 meter: baseball bat, guitar

Toss 4: 7 feet: door

Toss 5: 50 meters: tree, swimming race

★★★ Check Understanding

Answers will vary. Sample answer: My estimate is 12 inches. I know a quarter is about an inch across. I think it takes about 12 quarters to equal the length of a chair leg.

Game Board

Toss 1: 1 centimeter: fly, ant

Toss 2: 1 inch: queen bee, moth

Toss 3: 1 foot: squirrel, rabbit

Toss 4: 1 meter: beaver

Toss 5: 4 meters: large snake, shark

Center Activity Answer Key

Activity 2.34

Estimated and Actual Lengths

★ Check Understanding

Answers will vary. Estimated length of an eraser: 8 cm; Actual length: about 7 cm. My estimate was a little longer than the actual measurement, but it was close, so my estimate makes sense.

Recording Sheet

Answers will vary. Sample answers are shown.

Name of Object	Estimate (cm)	Actual (cm)	Estimate (in.)	Actual (in.)
paper clip	4 cm	5 cm	3 in.	2 in.
piece of paper	25 cm	28 cm	10 in.	11 in.
paintbrush	16 cm	17 cm	7 in.	7 in.
white board	27 cm	28 cm	11 in.	11 in.

★★ Check Understanding

Answers will vary. Estimated length of desk top: 2 feet; Actual length: 2 feet. My estimate was the same as the actual length, so it makes sense.

Recording Sheet

Answers will vary. Sample answers are shown.

Name of Object	Estimate (cm)	Actual (cm)	Estimate (in.)	Actual (in.)
marker	12 cm	14 cm	5 in.	5 in.
glue stick	6 cm	8 cm	4 in.	3 in.
folder	25 cm	30 cm	11 in.	12 in.
tissue box	20 cm	22 cm	8 in.	9 in.

★★★ Check Understanding

Answers will vary. Estimated length of desk leg: 2 feet; Actual length: about 2 feet. My estimate was very close, so it makes sense.

Recording Sheet

Answers will vary. Sample answers are shown.

Name of Object	Estimate (cm)	Actual (cm)	Estimate (in.)	Actual (in.)
book	20 cm	19 cm	7 in.	8 in.
paintbrush	16 cm	17 cm	7 in.	7 in.
white board	27 cm	28 cm	11 in.	11 in.
desk	70 cm	61 cm	25 in.	24 in.
chair	60 cm	69 cm	25 in.	27 in.

Center Activity Answer Key

Activity 2.35

Compare Centimeter Lengths

★ Check Understanding

Answers will vary. Sample answer: My pencil is 12 cm long and my partner's pencil is 14 cm long. My partner's pencil is 2 cm longer than my pencil.

Recording Sheet

Row 1: A is 3 cm long. B is 6 cm long.

Bar model: $6 - 3 = 3$;

B is 3 cm longer than A.

B is 6 cm long. C is 9 cm long.

Bar model: $9 - 6 = 3$;

C is 3 cm longer than B.

Row 2: C is 9 cm long. D is 10 cm long.

Bar model: $10 - 9 = 1$;

D is 1 cm longer than C.

A is 3 cm long. D is 10 cm long.

Bar model: $10 - 3 = 7$;

D is 7 cm longer than A.

★★ Check Understanding

Answers will vary. Sample answer: My pencil is 15 cm long and my partner's pencil is 12 cm long. My pencil is 3 cm longer than my partner's pencil.

Recording Sheet

Row 1: A is 3 cm long. B is 8 cm long.

$8 - 3 = 5$; B is 5 cm longer than A.

B is 8 cm long. C is 6 cm long.

$8 - 6 = 2$; B is 2 cm longer than C.

C is 6 cm long. D is 12 cm long.

$12 - 6 = 6$; D is 6 cm longer than C.

Row 2: A is 3 cm long. C is 6 cm long.

$6 - 3 = 3$; C is 3 cm longer than A.

A is 3 cm long. D is 12 cm long.

$12 - 3 = 9$; D is 9 cm longer than A.

B is 8 cm long. D is 12 cm long.

$12 - 8 = 4$; D is 4 cm longer than B.

★★★ Check Understanding

Answers will vary. Sample answer: The books are 19 cm and 22 cm long. The difference is 3 cm.

Recording Sheet

Row 1: A is 2 cm long. B is 12 cm long.

$12 - 2 = 10$; B is 10 cm longer than A.

B is 12 cm long. C is 5 cm long.

$12 - 5 = 7$; C is 7 cm shorter than B.

C is 5 cm long. D is 8 cm long.

$8 - 5 = 3$; D is 3 cm longer than C.

Row 2: A is 2 cm long. C is 5 cm long.

$5 - 2 = 3$; A is 3 cm shorter than C.

A is 2 cm long. D is 8 cm long.

$8 - 2 = 6$; D is 6 cm longer than A.

B is 12 cm long. D is 8 cm long.

$12 - 8 = 4$; D is 4 cm shorter than B.

Center Activity Answer Key

Activity 2.36

Compare Lengths

★ Check Understanding

Answers will vary. Sample answer: The desk leg is 20 inches tall. The chair leg is 14 inches tall. The desk leg is 6 inches taller than the chair leg.

Recording Sheet

Answers will vary. Sample answer:

10	
8	2

$$10 - 8 = 2$$

Difference: 2 cm

★★ Check Understanding

Answers will vary. Sample answer: The desk leg is 20 inches tall. The chair leg is 12 inches tall. The desk leg is 8 inches taller than the chair leg.

Recording Sheet

Answers will vary. Sample answer:

12	
8	4

$$12 - 8 = 4$$

Difference: 4 cm

★★★ Check Understanding

Answers will vary. Sample answer: The desk is 20 inches tall. The chair is 22 inches tall. The chair is 2 inches taller than the desk.

Recording Sheet

Answers will vary. Sample answer:

$$18 - 7 = 11$$

Difference: 11 cm