

Measurement: Length and Perimeter – AP Book 3.1: Unit 4

AP Book ME3-1

page 95

- Answers will vary. Teacher to check.
- Answers will vary. Teacher to check.
- 2
 - 5
 - 4
- 1
 - 4

BONUS

- 2
 - 4
- 4
 - 3
 - 3
 - 4
 - 5
 - 5
- 9
 - 13
 - 12
 - 8
 - 2
 - 6
- 4, 2, 4, 2
 - 5, 4, 3

BONUS

4, 6, 6, 4, 3

AP Book ME3-2

page 98

- Teacher to check.
- Teacher to check.
- Estimates may vary. Teacher to check.
Actual length:
 - 12 cm
 - 1 cm
 - 9 cm
 - 11 cm
- Estimates may vary. Teacher to check.
Distance (cm):
 - 2
 - 8

- 11
- 4
- 9

- Teacher to check.
- Teacher to check.
- Teacher to check.

AP Book ME3-3

page 100

- Answers will vary. Teacher to check.
- 4 m
 - 20 m
 - 600 m
- Answers will vary. Teacher to check.
- Answers will vary. Teacher to check.
- 700 m
 - 600 m
 - Tina
- No
 - No
- 324 m
 - 64 m
 - 102 m
 - Answers will vary. Teacher to check.

AP Book ME3-4

page 102

- Answers will vary. Teacher to check.
- Answers will vary. Teacher to check.
- 300 cm, 400 cm, 500 cm, 600 cm, 700 cm, 800 cm
- 500
500 + 15
515
 - 200
200 + 73
273
 - 400
400 + 8
408

- 600
600 + 20
620
- 100
100 + 3
103

- 770
 - 900 + 99
999
 - 800 + 1
801
 - 325
 - 776
 - 202
- 516 cm
 - 283 cm
 - 402 cm
 - 650 cm
 - 107 cm

BONUS

Canadian lynx: 90 cm,
Snow leopard: 200 cm,
Cougar: 220 cm,
Bengal tiger: 290 cm

AP Book ME3-5

page 104

- 10, 100, 1000
 - 10
 - 100
- Answers will vary. Teacher to check.
- 1 km is longer.
1 km = 1000 m, which is greater than 999 m.
 - Emma is not correct.
5 km = 5000 m, which is greater than 850 m.
- less than 1 m long, more than 1 m long, less than 1 m long, about 1 m long
 - less than 1 km long, more than 1 km long, less than 1 km long, about 1 km long

BONUS

less than 1 km long

- 170
 - 305
 - 115
 - 98
- 285 km
 - 403 km
 - 268 km
 - 403 km, 285 km, 268 km
 - 37 km
 - Answers will vary. Teacher to check.
- 615 km
 - 615 km
 - The road through Whitehorse is 31 km longer.

AP Book ME3-6

page 106

- -
 -
 -
- 1st
3rd
2nd
 - 1st
2nd
3rd
- 2nd, 1st;
cm, cm
 - 1st, 3rd, 2nd;
cm, m, m
- m
 - m
 - cm
 - km
 - cm
 - cm

Measurement: Length and Perimeter – AP Book 3.1: Unit 4

(continued)

- g) cm
h) km
5. b) 300
c) 700
6. a) 300
circle 3 m
b) 500
circle 5 m
c) 600
circle 780 cm

7. b) 500, 80
580
c) 100, 4
104
d) 600, 54
654
e) 700, 30
730
f) 200, 9
209
8. a) 302
circle 3 m 2 cm
b) 605
circle 6 m 5 cm
c) 290
circle 2 m 90 cm

BONUS

290 cm, 302 cm,
605 cm

9. 1 m = 100 cm
2 m 50 cm = 250 cm
Teacher to check number line.

10. a)	Length (cm)
	73 cm
	123 cm
	200 cm
	130 cm

- b) Yellow-bellied Racer, Rattlesnake, Fox snake, Coral snake
11. a) 195 cm
b) 10 m
c) 16 cm
d) 9 m
e) 14 m
f) 40 m

12. a) m
b) cm
c) m
d) cm
13. Teacher to check explanations.
a) m
b) km
c) km
d) m



AP Book ME3-7

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1. a) 8
b) 10
c) 5
d) 8
e) 5
f) 6
2. b) 8
c) 7
d) 10
3. a) 12
b) 12
4. a) 10
b) 10
c) 12
d) 12
5. a) $2 + 4 + 2 + 4 = 12$ cm
b) $3 + 2 + 2 + 2 + 1 + 4 = 14$ cm
6. Yes
7. a) $2 + 3 + 2 + 3 = 10$ cm
b) $2 + 1 + 3 + 1 + 5 + 2 = 14$ cm
8. b) $3 + 1 + 1 + 1 + 4 + 2 = 12$ cm
c) $2 + 1 + 2 + 1 + 2 + 3 + 6 + 3 = 20$ cm
d) $5 + 1 + 4 + 2 + 1 + 3 = 16$ cm
9. a) $6 + 4 + 6 + 4 = 20$ m
b) $3 + 1 + 2 + 2 + 5 + 3 = 16$ m



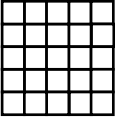
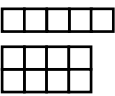
AP Book ME3-8

page 112

1. a–b) Estimates will vary.
Teacher to check.
Measured perimeter:
c) 10 cm, 8 cm, 14 cm
2. a) 20 m, 14 m, 24 m
b) C, A, B
3. a) 8 units

10 units
b) 8 units

8 units
4. a) 3, 4, 5, 6
b) Start at 3 and add 1 each time.
c) 7
8

BONUS



5. a) A's perimeter is 8 units and B's perimeter is 10 units, so A has the smaller perimeter.
b) No
c) Sample answers:

6. a) 
b) 
c) 
7. 14 m