ML8 Chapter 10 Problems of the Week Answers

BLM 10–4 Chapter 10 Problems of the Week

1.  = 48  = 12  = 6  = 4

 = 8  =3  = 5  = 2

2. The solution is incorrect.

$x - 3 = 7$

$x - 3 + 3 = 7 + 3$

$x = 10$

3. Methods may vary. Let x be the age of the first child, $x + 1$ the age of the second child, and $x + 2$ the age of the third child.

Solve by Guess and Check:

$x = 10$

$10 + (10 + 1) + (10 + 2) = 33$ Too Low

$x = 11$

$11 + (11 + 1) + (11 + 2) = 36$ Correct

Aunt Katrina's children are 11 years old, 12 years old, and 13 years old.

4. $173 \div 100 = 1.73$

1.73 m = 173 cm

$3.14d \approx 173$

$d \approx 173 \div 3.14$

$d \approx 55$

The diameter of my bicycle wheel is approximately 55 cm.

5. a) Let x be my successful shots and $x - 6$ be my partner's successful shots.

$3(x - 6) = 30$

$x - 6 = 10$

$x = 16$

I made 16 successful shots.

b) My score was $16(3) - 10(2) = 28$ points.

My partner scored 30 points.I did not win.

c) It is better to throw fewer shots that are more accurate. I should take my time when I shoot.

d) Answers may vary. Example: If one person makes 10 successful shots and misses one shot, and the other person makes 16 successful shots and misses 10 shots, they will be tied.

6. $4(8) + 3x = 143$

$32 + 3x = 143$

$3x = 111$

$x = 37$

The ride was 37 km.

7. Answers will vary.