Math 10

Lesson 5-3 Answers

**Lesson Questions**

**Question 1**



 The solution is and .

**Question 2**

A carpenter placed two identical plywood sheets end to end and measured their perimeter.



The carpenter placed the sheets side to side and measured their perimeter.



Determine the dimensions of a piece of this plywood.



The length of a sheet of plywood is 8 ft and the width is 4 ft.

**Question 3**

Let x by the mass of 50% alloy and y be the mass of 25% alloy.

For the total mass



For the mass of silver





 She should use 375 g of the 50% alloy and 250 g of the 25% alloy.

**Question 4**



 The solution is  and .

**Question 5**



 The solution is *x* = 8 and *y* = 4.

**Assignment**

1. a) *x* = –4, *y* = 3 b) 

c) *s* = 0, *t* = 2 d) *a* = 3, *b* = –2

2. a)  b) *a* = –3, *b* = –7

c)  d) 

3. *x* + *y* = 90 530 and *y* – *x* = 120

2006 attendance: 45 205; 2008 attendance: 45 325

4. 10*k* + 20*b* = 200 and 15*k* + 25*b* = 270

1 knife: 8 beaver pelts; 1 blanket: 6 beaver pelts

5. 4.5*m* + 0.5*f* = 620 and *f* – *m* = 40

Moderate tempo: 120 beats/min; fast tempo: 160 beats/min

6. 36 girls; 40 boys

7. An adult pays $6.75 and a child pays $7. So, a child’s ticket is more expensive.

8. 15 kg of green peas; 10 kg of red lentils

9. 40 bushels/acre for wheat; 58 bushels/acre for barley