WILLIAM, I GOLGALY ZZ, ZOIO Alyenia i

1. You start a business that manufactures and sells space heaters. The building and machinery cost \$550,000. Each month you pay \$2700 for utilities, insurance, and taxes. Your payroll each month is \$10,500. You sell your space heaters for \$120 each and your monthly sales average 350 space heaters.

Find the break-even point.

. Your boat can travel 12mph in calm water. Today you took your boat to a river that has a current of 4 mph.

a) How long would it take you to travel 9 miles upstream?

b) How long would it take you to return?

3. Your plane can fly 180 mph with no wind. Today there is a 25 mph wind.

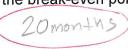
a) How far can you travel in 4 hours if you fly with a tailwind?

b) How long would it take you to return?

Monday, February 22, 2016 Answers Algebra 1 Bellwork



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$$\frac{10,500}{25000}$$
. Find the break-even point. $\frac{550,000}{25000} = \frac{28,800}{25000} = \frac{28,800}{10,5000} = \frac{10,5000}{10,5000} = \frac{10,5000}{10,5000}$

2. Your boat can travel 12mph in calm water. Today you took your boat to a river that has a current of 4

b) How long would it take you to return? -= boat speed + current speed

3. Your plane can fly 180 mph with no wind. Today there is a 25 mph wind.

a) How far can you travel in 4 hours if you fly with a tailwind?

can you travel in 4 hours if you fly with a tailwind?

$$d = (205 \text{ mph})(4 \text{ hr}) = 820 \text{ miles}$$

The call by two travels in 4 hours if you fly with a tailwind?

 $v = 180 \text{ mph} + 25 \text{ mph}$

The plane speed + wind speed

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b) How long would it take you to return?