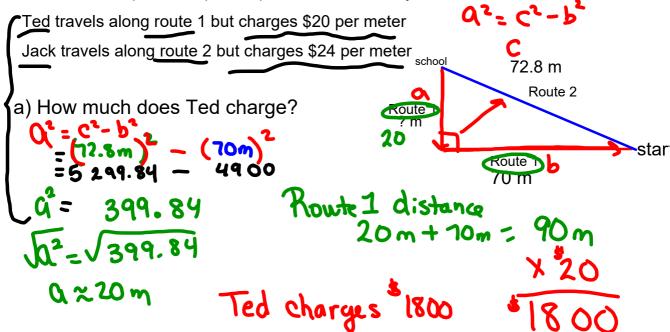


V1 Warm Up Grade 8

Wednesday, Nov. __, 2019 Similar to test question



1) Jack and Ted have competing paving companies. The school wants to hire the one of the companies to pave a path to school. They have two choices;



b) How much will Jack Charge? (Requires more work than part a)

c) Who has the better deal for the school?



Warm Up Grade 8



1) Jack and Ted have competing paving companies. The school wants to hire the one of the companies to pave a path to school. They have two choices;

Ted travels along route 1 but charges \$20 per meter 72.8 m Jack travels along route 2 but charges \$24 per meter Route 2 Route 1 ? m a) How much does Ted charge? sta Route 170 m

find missing route (leg)
$$20 \text{ m} + 70 \text{ m} = 90 \text{ m}$$

$$a^2 = c^2 - b^2$$

$$= (72.8 \text{ m})^2 - (70 \text{ m})^2$$

$$= 5 299.84 \text{ m}^2 - 4900 \text{ m}^2$$

$$a^2 = 399.84 \text{ m}^2$$

$$a \approx 20 \text{ m}$$
Ted charges \$1800

b) How much will Jack Charge?

Jack Charges \$1876.80 78.2 m x \$24 = \$1876.80

c) Who has the better deal for the school?

Ted has the better deal. He is \$76.80 cheaper.

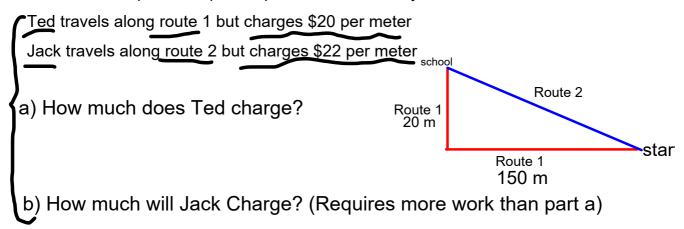
\$1876.80 - \$1800 = \$76.80



Version 2 Version 2 Wednesday, Nov. __, 2019 Similar to test question

Applying Knowledge

1) Jack and Ted have competing paving companies. The school wants to hire the one of the companies to pave a path to school. They have two choices;



c) Who has the better deal for the school?



Warm Up Grade 8



1) Jack and Ted have competing paving companies. The school wants to hire the one of the companies to pave a path to school. They have two choices;

Ted travels along route 1 but charges \$20 per meter Jack travels along route 2 but charges \$22 per meter



a) How much does Ted charge?

20 m + 150 m = 170 m

$$\frac{x $20}{$3400}$$
 Ted charges \$3400

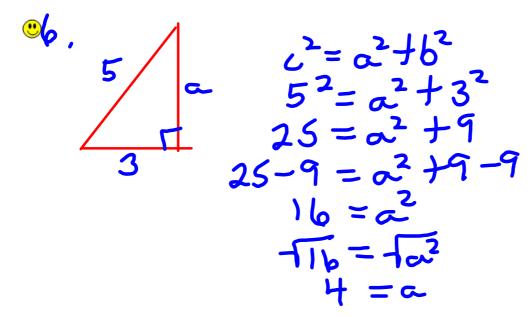
b) How much will Jack Charge? (Requires more work than part a)

Need to find route 2 ... THE Hypotenuse

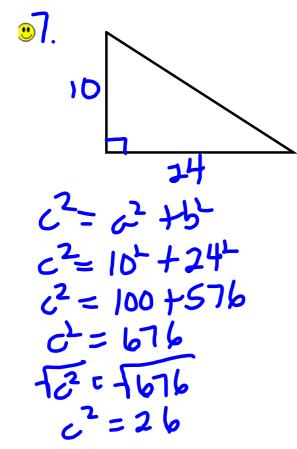
$$c^2 = a^2 + b^2$$
 $c^2 = (150 \text{ m})^2 + (20 \text{ m})^2$
 $c^2 = 22 500 \text{ m}^2 + 400 \text{ m}^2$
 $c^2 = 22 900 \text{ m}^2$
 $c = \sqrt{22 900 \text{ m}^2}$
 $c = 151.3 \text{ m}$

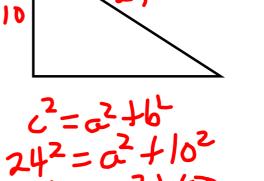
c) Who has the better deal for the school?

Jack is the better deal. He charges \$71.40 cheaper.



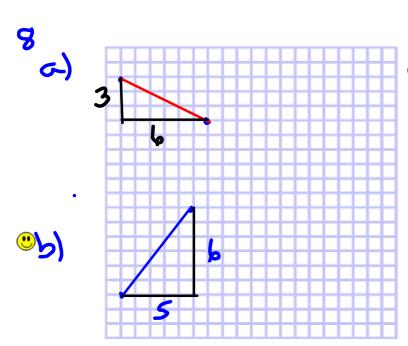
The ladder reaches up 4 m.





 $24^{2} = a^{2} + 10^{2}$ $576 = a^{2} + 100$ $576 - 100 = a^{2} + 100 - 100$ $476 = a^{2}$ $-1476 = 5a^{2}$ 21.8 = a

by 2 answers are possible became it doesn't say if 24 is one leg or the hypotenuse.

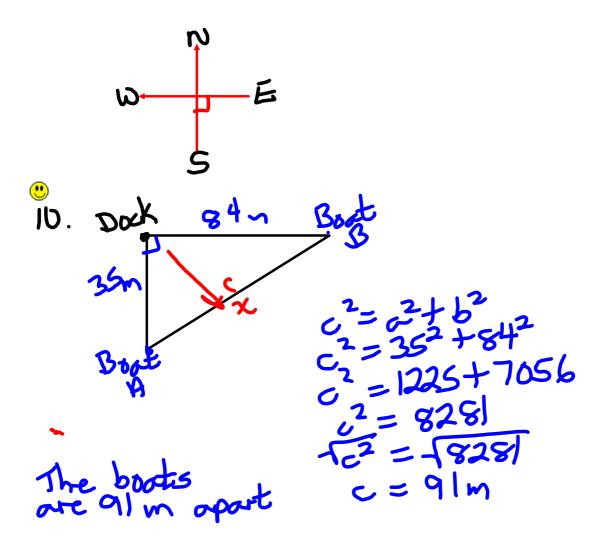


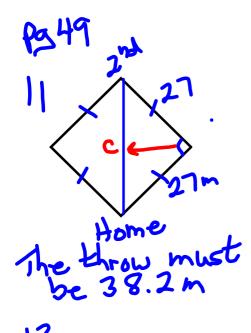
(2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) (3) (2) (3) (3) (3) (4) (4) (4) (5)

c2= 246 c2= 5246 c2= 5436 c2= 61 c2= 61 c2= 7.8

 $c^{2} = 2 + 4b^{2}$ $c^{2} = 25^{2} + 60^{2}$ $c^{2} = 625 + 3600$ $c^{2} = 4225$ $c^{3} = 4225$ c = 65

The diagonal should be 65 cm





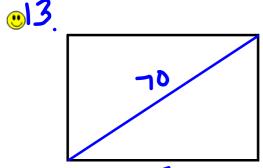
$$c^{2} = a^{2} + b^{2}$$

$$c^{2} = 27^{2} + 27^{2}$$

$$c^{2} = 27^{2} + 1729$$

$$c^{2} = 1458$$

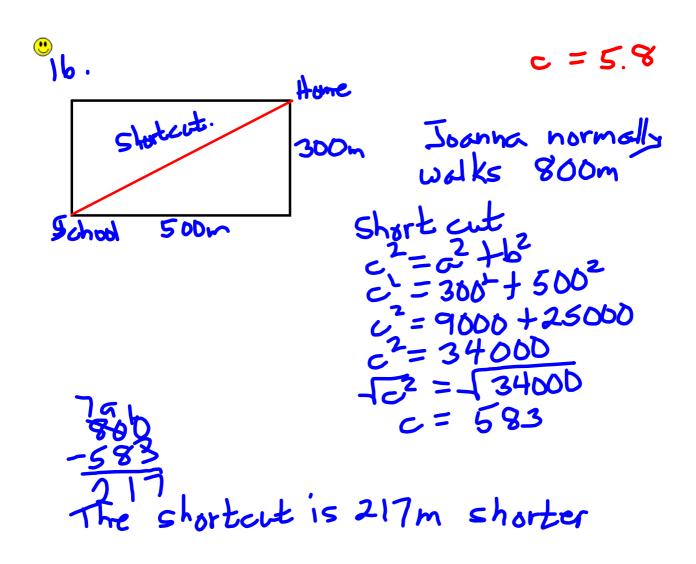
$$f^{2} = 458$$



The length is 57.4 cm

14. To get from A to B, you move right. 4 and up3.

To get from A to F, you move down 3 and left 4, so F is the same distance from A as Bis.





Complete all questions on the worksheet

Unit 1 Test

Tues, Dec 3

STUDY
Must Study Perfed Square#
Not given ontest

Test out line >5MC > 9 Short Response > given # offactors determine if # is a perket squar > product of perfect Squares Ex 1400 = 14x100 **प्रिप्राक्त** -) Find J of # > use c2=a2+b2 02 = 62 - 92 find length of missing side of cight D 7 Diagonal length > Know difference Square root 7 Est:mate V of non-perfect square the Show work 3 word problem Similer to warm up today

November 29, 2019

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