

## Warm Up Grade 8

Wednesday, Nov. 28, 2018 Similar to test question



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;

T<u>ed</u> travels along route 1 but charges \$20 per meter Jack travels along route 2 but charges \$22 per meter Route 2 a) How much does Ted charge? Route 1 Total 3000, 400 star Route 1 150 m b) How much will Jack Charge? (Requires more work than part a) distance Charges 322 for  $=(20)^2+(150)^2$ 151.3 x22 = 3026 C = 151.3 km

c) Who has the better deal for the school?

Jack has a better price.

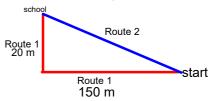


## Warm Up Grade 8



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

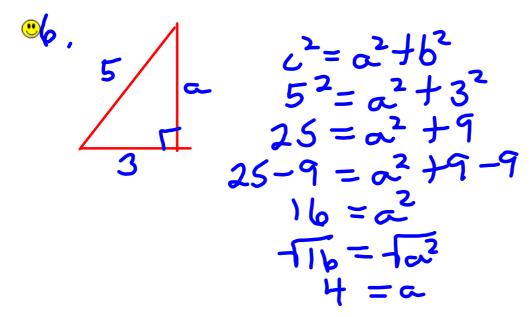
b) How much will Jack Charge? (Requires more work than part a)

Need to find route 2 ... THE Hypotenuse

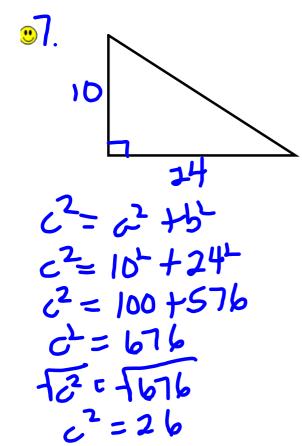
$$c^2 = a^2 + b^2$$
 $c^2 = (150 \text{ m})^2 + (20 \text{ m})^2$ 
 $c^2 = 22 500 \text{ m}^2 + 400 \text{ m}^2$ 
 $c^2 = 22 900 \text{ m}^2$ 
 $c = \sqrt{22 900 \text{ m}^2}$ 
 $c = 151.3 \text{ m}$ 

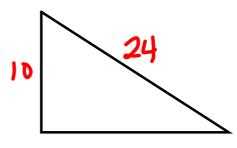
c) Who has the better deal for the school?

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



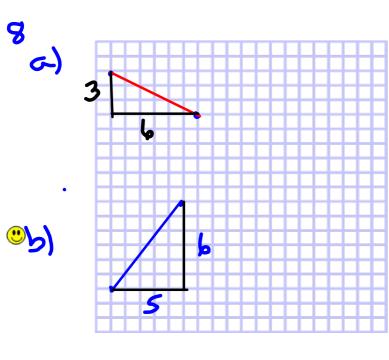
The ladder reaches up 4 m.





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

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

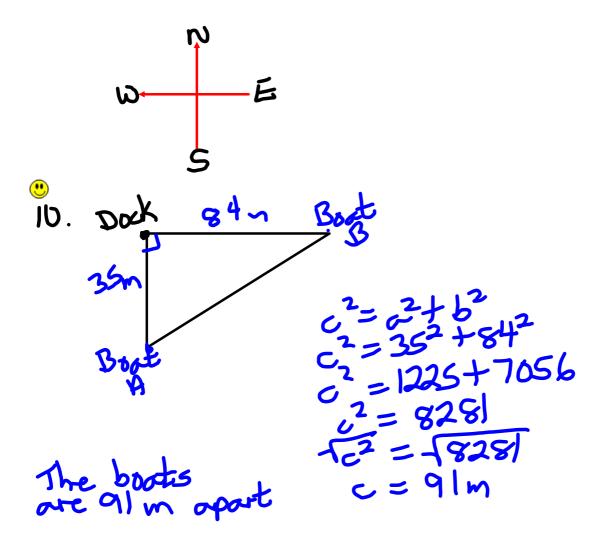


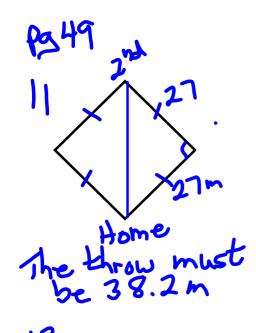
 $c) c^{2} = c^{2} + 6^{2}$   $c^{2} = 5^{2} + 6^{2}$   $c^{2} = 0 + 3^{2}$   $c^{2} = 45$   $c^{2} = 45$  c = 6,7

c<sup>2</sup>= c<sup>2</sup>+6<sup>1</sup> c<sup>2</sup>= c<sup>2</sup>+6<sup>1</sup> c<sup>2</sup>= 5<sup>2</sup>+6<sup>1</sup> c<sup>2</sup>= 5<sup>2</sup>+6<sup>2</sup> c<sup>2</sup>=

 $c^{2} = a^{2} + b^{3}$   $c^{2} = 35^{2} + 60^{2}$   $c^{2} = 625 + 3600$   $c^{2} = 4235$   $c^{3} = 4325$ 

The diagonal should be 65 cm





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

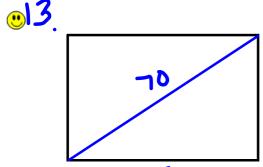
$$c^{2} = 27^{2} + 27^{2}$$

$$c^{2} = 1458$$

$$c^{2} = 1458$$

$$c^{2} = \sqrt{1458}$$

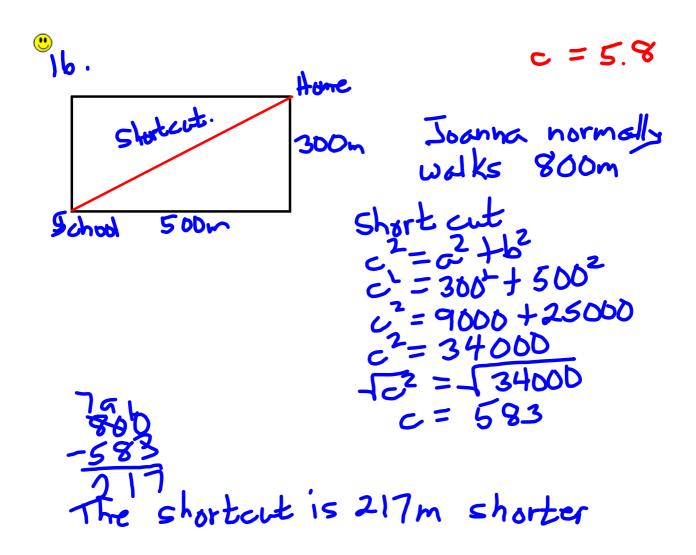
$$c = 38.2m$$



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.





## Worksheet: Unit 1 Test Review

Complete all questions on the worksheet

## **Unit 1 Test**

Thursday, Nov. 29

STUDY

Must Study Perfed Square# Not given ontest Test out line

>5MC

> 9 Short Response

> given # offactors determine if # is

determine if # is a perfect square

> product of perfect

Ex 1400 = 14x100

VY Y 100

: 2 x (0 = 20

-) Find \\_ of #

using product

(tree)

18 5

3 73e

vse c2=a2+b3 معد c2-b2

find lenght of missing sided (ight D

7 Dia yonal length

> Know difference
Of square

Square 100+

7 Est: mate V of non-perfect square # X Show work

3 word problem Similar to warm up today

5 = 25

1151 = 11

V93 = 93

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