M7 = 1 dety 60 90!

Sean is making plans to build a shed with a rectangular floor.

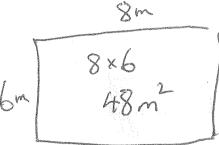
The floor has length 4 m and width 3 m. He thinks the area of the floor is too small. He wants to have exactly double the floor area. Aven = 4 m 2 m = 12 m²

He writes down 3 ideas:

- Idea 1 Add 2 m to the length and add 2 m to the width.
- Idea 2 Double the length and double the width.
- Idea 3 Double the length only.

Which idea will work?

Explain your answer. Idea 2



Avec 2 5m

1 dea 3 8 m 24 m² 3 m

Answer Idea	3	because_	亿尺	gives	are	24
Mher	idens	are	Idea	1 gives	20m2	
(dea	2 gare	, 43v	n ²			
		The state of the s	***************************************			

The cost, $\pounds C$, of a taxi journey can be calculated using the formula

$$C = 2.50 + 1.25 \times M$$

£2.50 is the initial charge, M = number of miles.

Julie has £10 and Kate has £20.

Kate says she can travel exactly twice the number of miles that Julie can by

taxi.

Is Kate correct?

· 10 = 2.5 + 1-25 M

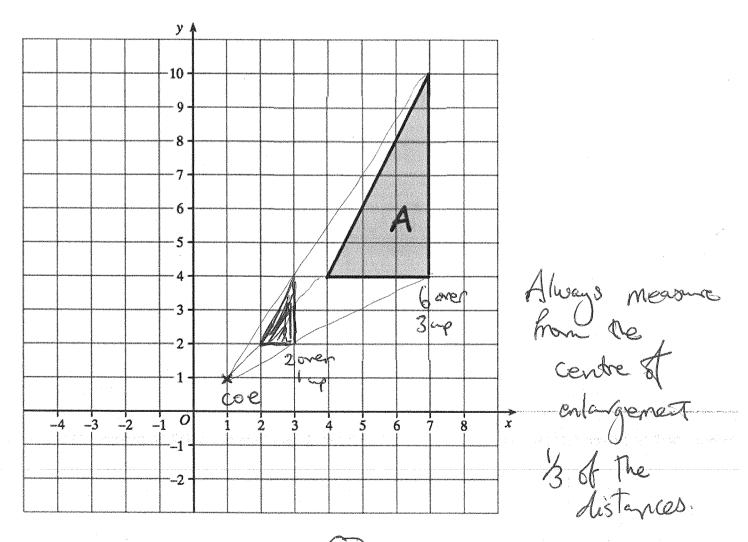
Explain your answer.

7.5 = 1.25M

6 = M 6 miles for Julie

20 = 2.5+1.25M 17.5 = 1.25M 14 = M 14 miles for Kate

[3]



Draw the enlargement of shape A with scale factor 1/3 and centre of makes it smaller enlargement (1,1).

(3)