Candidate 1 (Question 5)

5. Guests at a wedding were asked to choose their main course.

- $\frac{3}{7}$ of the guests chose chicken
- $\frac{1}{3}$ of the guests chose beef
- the remaining guests chose the vegetarian option.

Calculate the fraction of guests that chose the vegetarian option.

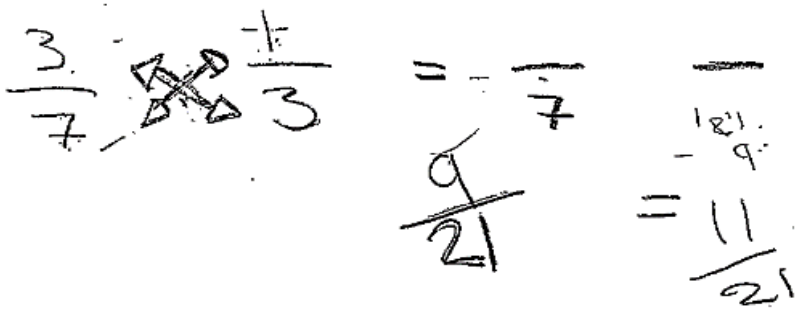
$\frac{1}{3} = 0.30$ $\frac{3}{7} = 0.21$ $\frac{49}{100}$

Candidate 2 (Question 5)

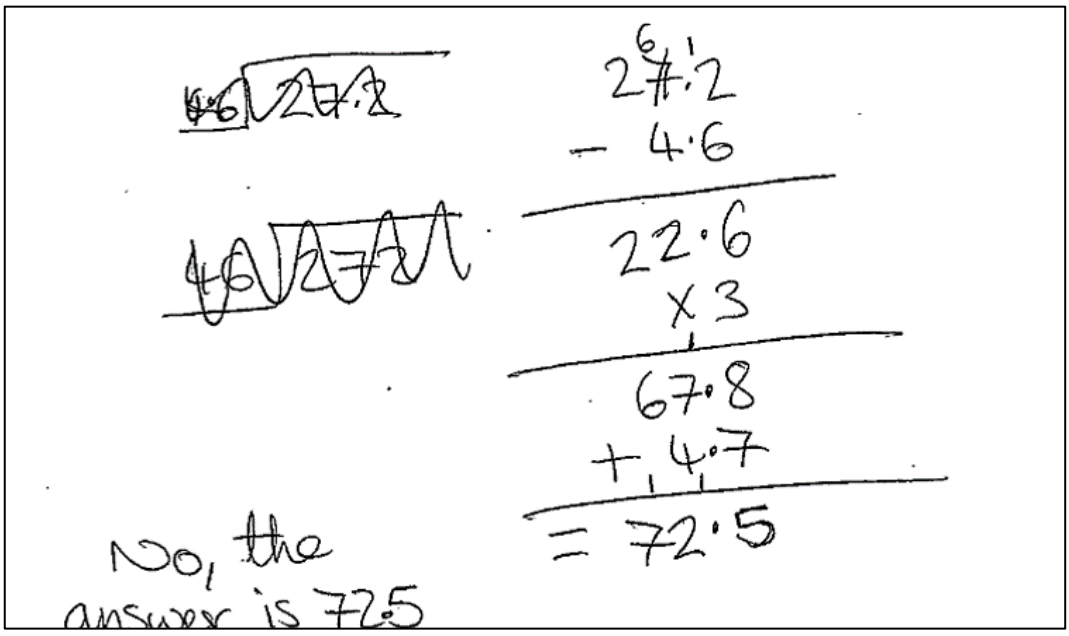
5. Guests at a wedding were asked to choose their main course.

- $\frac{3}{7}$ of the guests chose chicken
- $\frac{1}{3}$ of the guests chose beef
- the remaining guests chose the vegetarian option.

Calculate the fraction of guests that chose the vegetarian option.



Candidate 3 (Question 6)

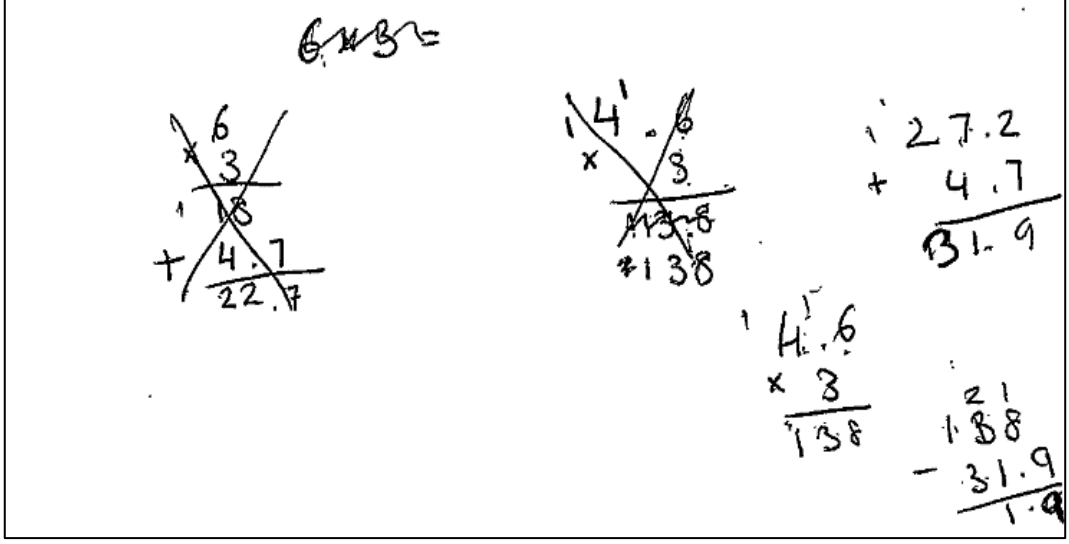


Candidate 4 (Question 6)

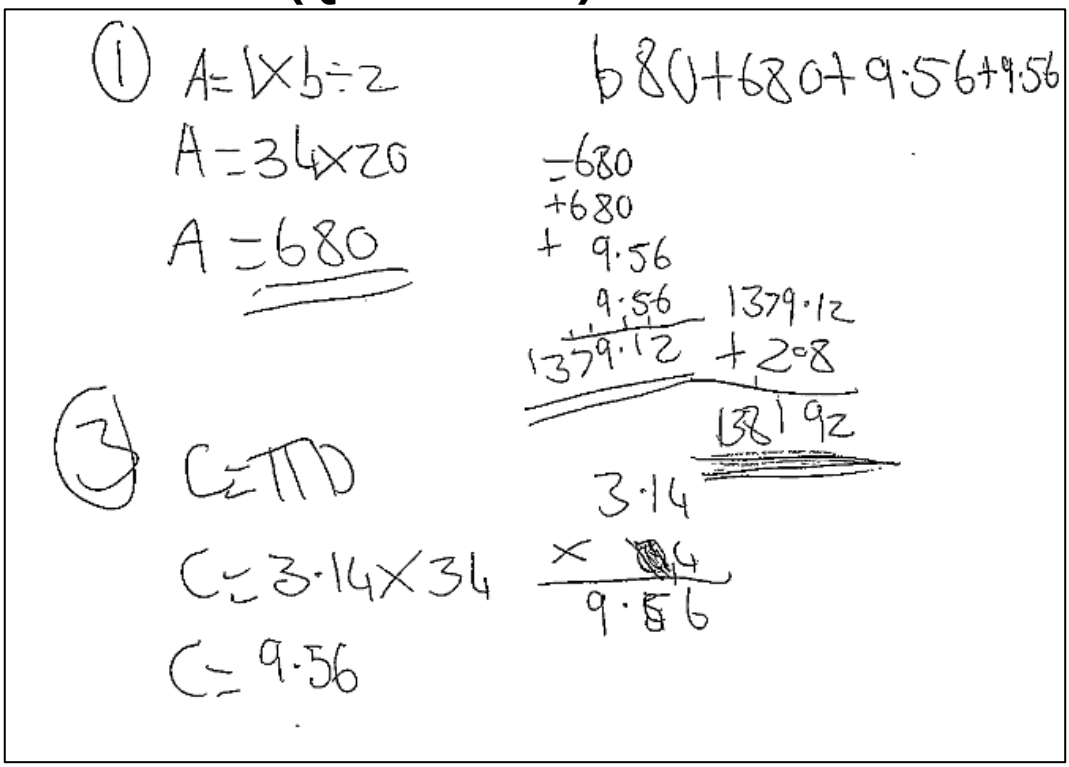
$27{\cdot}2-(4{\cdot}6\times3)+4{\cdot}7$

Is Tom correct?

Use your working to justify your answer.



Candidate 5 (Question 11)



Candidate 6 (Question 11)

Calculate the length of ribbon needed for the cake.

Take $\pi = 3{\cdot}14$.

A of circle = πr^2

= 3.14 x 10²

= 3.14 x 100 = 314 ÷ 2

157 x 2 = 314 = two half-circles

Pythagoras: shorter side

= a² = c² − b²

a² = 40² − 34²

= 314 + 34 + 34 = 382 cm = 3.82 m

382 + 2.8 = 384.8 cm

Perimeter = 40 + 40

= 80 + 2.8 = 82.8 cm

A of Triangle

= ½ b x h

Candidate 7 (Question 13)

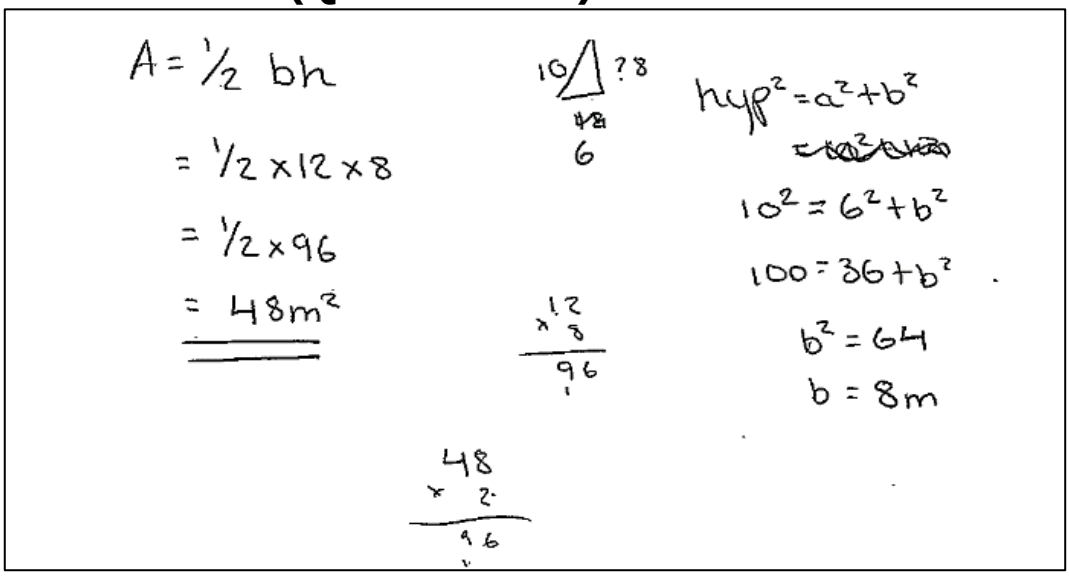
Calculate the area of the lawn.

$C = A^2 + B^2$

$= 10^2 + 12^2$

$= 100 + 144$ $244\,cm^2$

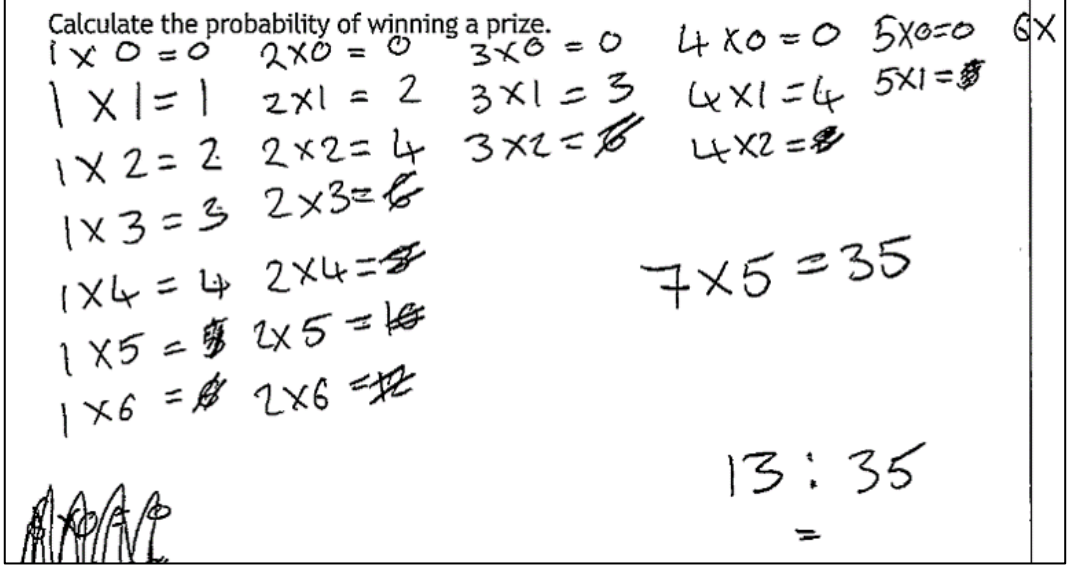
Candidate 8 (Question 13)



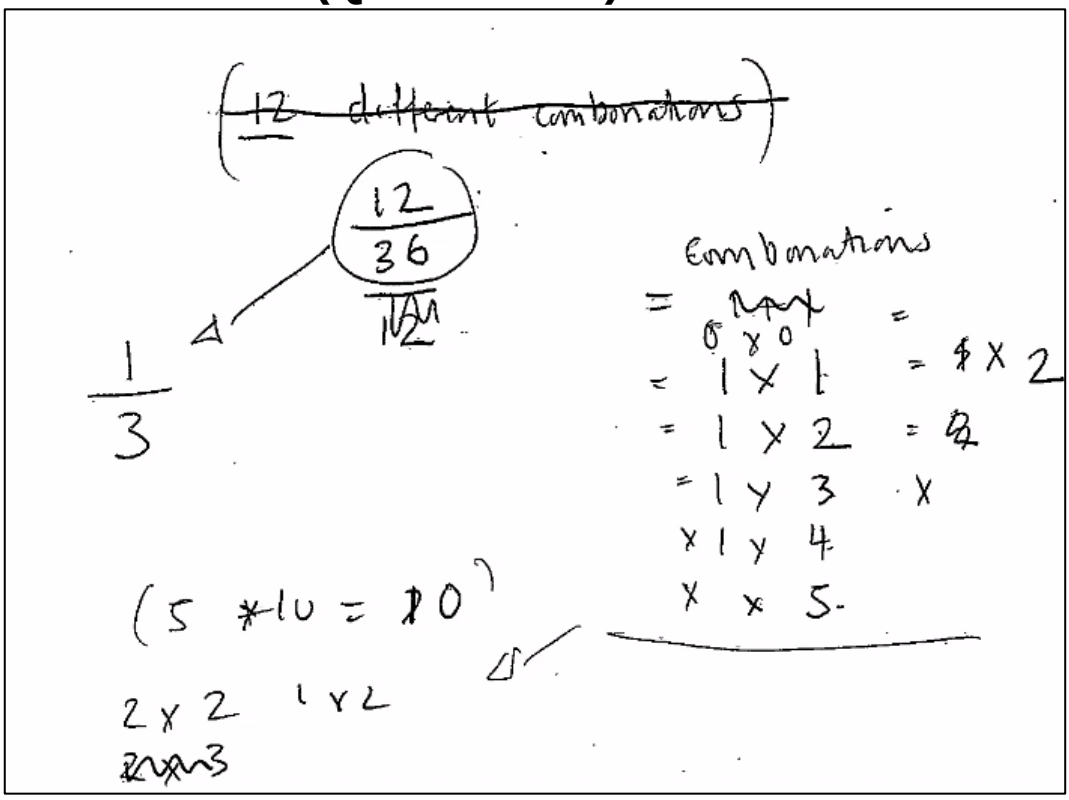
Candidate 9 (Question 14)

To win a prize the answer to this multiplication must be **less than 5**.

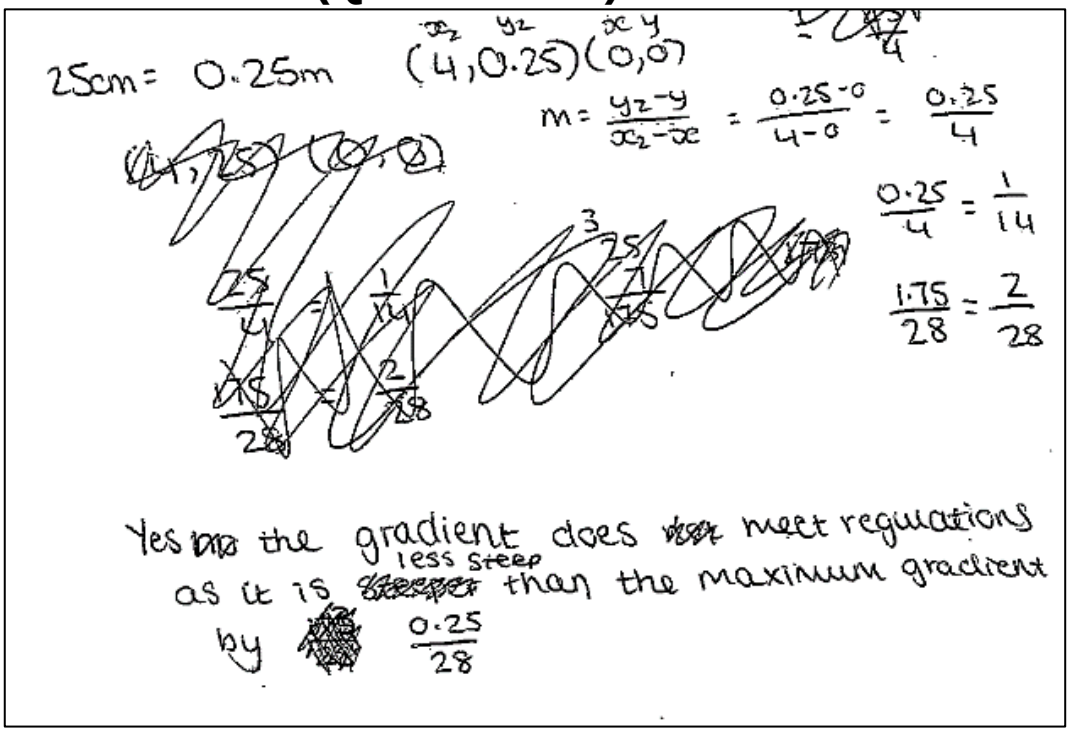
Calculate the probability of winning a prize.



Candidate 10 (Question 14)



Candidate 11 (Question 15)



Candidate 12 (Question 15)