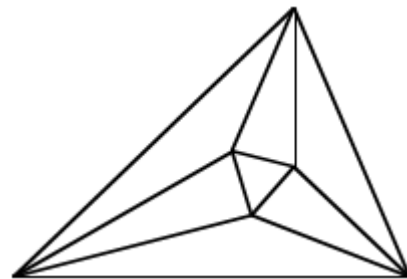


Meet 1 – Team Event 2019-20

Answers

Questions are worth 4 points each.

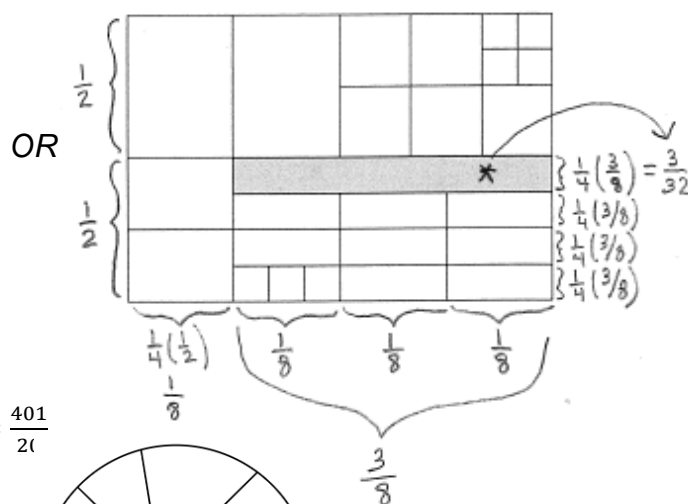


15 1. $\sqrt{81 + 144} = \sqrt{225} = 15$

1 2. $7 \phi (1 \phi 10) = 7 \phi (1 + 10 - 1(10)) = 7 \phi (1 + 10 - 10) = 7 \phi 1$
 $7 \phi 1 = 7 + 1 - 7(1) = 8 - 7 = 1$

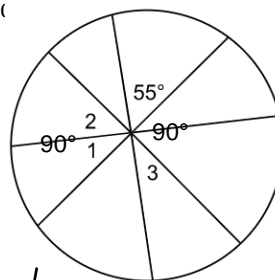
52 mi 3. 50 miles in 2 hours = 25 mph; 36 miles in 3 hours = 12 mph
 Teri: $d = 25(4) = 100$ miles; Cam: $d = 12(4) = 48$ miles
 100 miles – 48 miles = **52 miles**

3/32 4. Basing the measurements on the smallest square (1x1) implies the entire rectangle measures 8x12. The shaded region measures 1x9. Therefore, $9/96 = \mathbf{3/32}$.



20.05 6. $0.1 \psi 2 = \frac{0.1}{2} + \frac{2}{0.1} = \frac{1}{20} + \frac{20}{1} = \frac{1}{20} + \frac{400}{20} = \frac{401}{20}$
 $401 \div 20 = \mathbf{20.05}$

35° 7. $55 + 90 + "3" = 180$; $"3" = \mathbf{35}$



See () 8. .
 2 points for each correct response
 •Both () in correct locations for large: 2pts
 •Both () in correct locations for small: 2pts

as large as possible:

as small as possible:

$(7 - 4) \times 8 - 2 + 5$
 $7 - 4 \times (8 - 2 + 5)$

3/4 mi/min 9. 45 miles/hour \times 1 hour/60 minutes = 45/60 miles/minute = **3/4 miles/minute**

Also accept:
 0.75

6 10. 3 options for first digit, 2 options for second digit, 1 option for third digit
 $3 \times 2 \times 1 = \mathbf{6}$