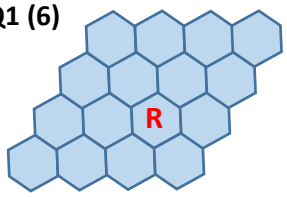
Count on Us Secondary Schools Challenge FINAL 2020

Answer Sheet

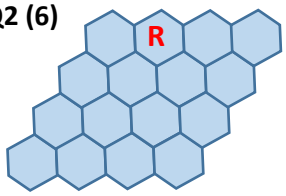
Round 1a: Game of Hex **Score 6 points per puzzle.**

(There may be alternative answers)

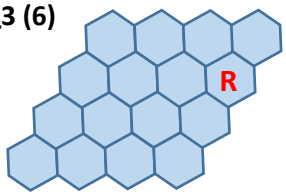
Q1 (6)



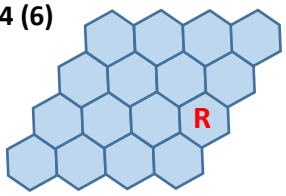
Q2 (6)



Q3 (6)

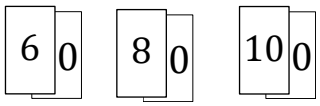


Q4 (6)



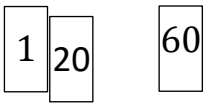
Round 1b: Gridline Geometry **Score more points for higher level (score in brackets)**

Q1 (4)



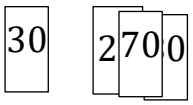
6/70=60 8/30=80 10/50=100

Q2 (5)



1/20=120 60

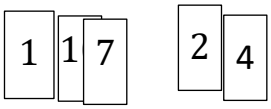
Q3 (7)



30 20/70/80=2700

(there are many different ways to makes the 2700)

Q4 (8) Any x and y with $x + y = 141°$ e.g.



1/10/7=117 2/4=24

Round 2: 24®Game **Score one point per dot (Score in brackets)**

Q1 (1)	$(7 + 1) \times (6 \div 2)$	**Q2 (1)**	$(8 - 6) \times (6 \times 2)$	**Q3 (2)**	$(7 \times 3) + (7 - 4)$
Q4 (2)	$(23 - 4) + (16 - 11)$	**Q5 (3)**	$(22 + 16) - (12 + 2)$	**Q6 (3)**	$((24 + 6) \div 15) \times 12$
Q7 (1)	$(9 - 8) \times (-3 \times -8)$	**Q8 (1)**	$(7 - -7) + (-2 \times -5)$	**Q9 (2)**	$(7 — -1) \times (9 - 6)$
Q10 (2)	$((4 - -2) \times 5) + -6)$	**Q11 (3)**	$((-5 + -8) \times -2) - 2$	**Q12 (3)**	$((9 + -5) + 4) \times -3$
Q13 (1)	$(5 - 3) \div (\frac{1}{3} \times \frac{1}{4})$	**Q14 (1)**	$(19 + 2) \times (0.8 \div 0.4)$	**Q15 (2)**	$4 \div ((\frac{3}{8} \div \frac{3}{8}) - \frac{5}{6})$
Q16 (2)	$(12 + 4) + (5.4 \div 0.6)$	**Q17 (3)**	$(9 \times 5) - (7 \div \frac{1}{3})$	**Q18 (3)**	$(6.5 - (2 \div 1)) \times 4$

Round 3: Record the decoded responses Write them in any order in the boxes. 6 Points each.

1838	221b Baker Street
1819	Fruit and vegetables
1946	Victoria and Albert
Commons and Lords	Norman