

# Countdown to your final Maths exam ...

## Foundation Tier only ... Part 1 (2020)

### Integers & Place Value

### Examiners Reports & Markscheme

#### Examiner's Report

**Q1.** In part (a) of the question, Many of the candidates scored full marks. It was well answered. Unfortunately candidates found part (b) of the question more demanding. The answer 0.4 was often seen as the lowest number, possibly because it only has one decimal place. The 0.35 also was often incorrectly placed as well, again pupils thinking it was less than 0.345.

**Q2.** This question proved to be a good starter question with most students scoring at least 2 of the 3 marks. Students struggled most with part (c) where '100' or 'hundreds' was the most common incorrect response.

**Q3.** Part (a) was done well. Most students were able to add up the two decimal numbers correctly. Common incorrect answers were 42.10 and 33. Part (b) was done well. Most students knew that they had to divide 60 by 4. Many divided 60 by 2 then by 2 again. Common incorrect answers were  $\frac{60}{240}$  and 45.

Part (c) was done quite well. Many students were able to write down the place value of the 3 in the decimal number. Common incorrect answers were 3 hundredths and 30.

**Q4.** This question was generally well answered. In part (a), the vast majority of candidates were able to add the two numbers correctly. In part (b), the vast majority of candidates were able to subtract the two numbers correctly. Common incorrect answers were 133 and 277. In part (c), the vast majority of candidates were able to multiply the three numbers correctly. A common incorrect answer was 25 (usually from  $2 \times 3 = 5$ ,  $5 \times 5 = 25$ ).

**Q5.** There were many correct responses to part (a) but many wrote 0.37, 0.46, 0.401, 0.439 often because they were trying to order 37, 46, 401 and 439

In part (b) many students tried to convert all the numbers to decimals but then struggled to convert  $\frac{7}{8}$  to a decimal and often wrote that  $\frac{2}{3}$  was 0.6 when written as a decimal.

**Q6.** Very few students failed to order the numbers correctly in either part (a) or part (b). In part (b), a small number of students started with the largest number instead of the smallest number. Part (c) was also answered very well. The most common incorrect answer was 0.09. Less than half of the students could write  $\frac{11}{8}$  as a mixed number in part (d). Many of the incorrect answers were written as mixed numbers but whole numbers and decimals were also seen. Some students did not answer this part.

**Q7.** A few students worked out a distance and then assumed it was the shortest distance, without checking other routes. But the majority gained full marks.

**Q8.** The majority of candidates could make some progress with this question and were generally unfazed by the context with its mixture of varying and fixed sponsorship amounts. The forms were used to show working but a few arithmetic errors particularly with  $2 \times 18$  or finding totals were seen. Some failed to give a final conclusion or thought that both Jamie and Lily were each aiming to raise £108 rather than combine their totals raised.

**Q9.** Many students gained full marks for this question. However, some students added the two mileages instead of subtracting them. A number of students lost marks unnecessarily because they misread numbers, sometimes from their own writing. Students generally used money notation correctly though a few students left their answer in the form £44.8.

## Mark Scheme

Q1.

Question	Working	Answer	Mark	Notes
(a)		1357, 3517, 5713, 7135	1	B1 cao
(b)		0.345, 0.35, 0.354, 0.4	1	B1 cao

Q2.

Question	Working	Answer	Mark	Notes
(a)		37	1	B1 cao
(b)		23 079	1	B1 cao
(c)		8 hundred	1	B1 for 8 hundreds or 800

Q3.

Question	Working	Answer	Mark	Notes
(a)		43	1	B1 cao
(b)		15	1	B1 cao
(c)		$\frac{3}{10}$	1	B1 for $\frac{3}{10}$ or 3 tenths oe

Q4.

Question	Working	Answer	Mark	Notes
(a)		65	1	B1 cao
(b)		127	1	B1 cao
(c)		30	1	B1 cao

Q5.

Question	Working	Answer	Mark	Notes
(a)		0.37, 0.401, 0.439, 0.46	1	B1 cao
(b)	$\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{2}{3}$ , $\frac{3}{4}$ , $\frac{7}{8}$ 0.75, 0.875, 0.25, 0.5, 0.66	0.25, $\frac{1}{2}$ , $\frac{2}{3}$ , 75%, $\frac{7}{8}$	2	M1 for attempt to convert all to same form or one error in ordered listing A1 for correct order (Accept 0.67 or 0.66 for $\frac{2}{3}$ ) (SC: B1 for order reversed)

Q6.

Question	Working	Answer	Mark	Notes
(a)		Ordered	1	B1 for 399, 3007, 3333, 4011, 4435
(b)		Ordered	1	B1 for 0.7, 3.7, 5.62, 14.3
(c)		0.9	1	B1 cao
(d)		$1\frac{3}{8}$	1	B1 cao

Q7.

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Question	Working	Answer	Mark	Notes
		70	2	M1 for $20+25+25 (=70)$ or $15+35+25 (=75)$ or $20+60 (=80)$ A1 cao

Q8.

Question	Working	Answer	Mark	Notes
	$(1 \times 18 + 12 + 2 \times 18)$ $+$ $(10 + 15 + 1 \times 18 + 5)$ $= 66 + 48$ $= 114$  OR $12 + 10 + 15 + 5 =$ $42$ $1 + 2 + 1 = 4$ $4 \times 18 = 72$ $42 + 72$	Yes they have raised enough money	5	M1 for $1 \times 18 + 12 + 2 \times 18 (=66)$ or Jamie's form completed with correct 18 and 36 and a final total. M1 for $10 + 15 + 1 \times 18 + 5 (=48)$ or Lily's form completed with correct 18 and a final total. M1 "66" + "48" (dep on M1) A1 for 114 C1 (dep on M1) for clear comparison and conclusion using their answer for the total raised  OR M1 for $12 + 10 + 15 + 5 (=42)$ seen separately from any other total M1 for $(1 + 2 + 1) \times 18$ or 72 M1 for "42" + "72" (dep on 2nd M1) A1 for 114 C1 (dep on M1) for clear comparison and conclusion using their answer for the total raised.

Q9.

Question	Working	Answer	Mark	Notes
		£44.80 or 4480p	4	M1 for $8565 - 8437 (=128)$ M1 for "128" $\times 35$ A1 for digits 448(0) C1 for £44.80 or 4480p ie clearly stated answer with correct money notation.