



KEY STAGE 2 MARK SCHEME

- 1) 2 marks for all correct: primes (2,3,5), factors of 12 (2,3,6), factors of 15 (3,5).
1 mark if there are 1 or 2 missing or incorrect additional numbers
- 2) 10
- 3) a) 7, b) 24
- 4) If you double an acute angle 45° or less, you will still have an angle that is 90° or less and therefore not obtuse. Or they can just give an example that proves it to be incorrect. Eg. $30 \times 2 = 60$ (acute)
- 5) a) 253.4, b) 19, c) 4
- 6) 2 marks for 5 hours and 35 minutes
Award 1 mark if you can see at least one correct time written down in either digital or analogue
- 7) a) 651, b) 81, Award 2 marks for the correct answer. If incorrect and they have only made one error in their working out award 1 mark
- 8) 2 marks if they have correctly worked out $\pounds 1.85$ change and 1 mark for sight of $\pounds 3.15$ (total money spent)
- 9) Any 2 numbers that satisfy the equation (EG $x = 10, y = 5$)
- 10) 2 marks for $\frac{1}{2}, \frac{2}{8}, \frac{7}{16}$. Award 1 mark if there is either one fraction missing or all three an 1x extra incorrect fraction
- 11) 29 booklets. 2marks for correct answer. 1 mark for attempting to divide 1000 by 34. This can be done by counting up in 34's to get to 1000. If they write 29 remainder 15 or 29 point something only award 1 mark)
- 12) a) 204, b) 159 remainder 2 or $159 \frac{2}{3}$ or 159.6666..., c) 1392, d) 46 Award 2 marks for the correct answer. If incorrect and they have only made one error in their working out award 1 mark
- 13) 40 000, 39 000, 39 500 Award just 1 mark if they get 2 correct
- 14) 4
- 15) 3.75 litres. Award 2 marks for correct answer. 1 mark for sight of 1 litre in 16 seconds or for $60 \text{ divided by } 4 = 15$ or for sight of 3750



16) a) 12, b) £24.60 (24.6) 2 marks for correct answer. Award 1 mark for sight of 8.2 or £8.20)

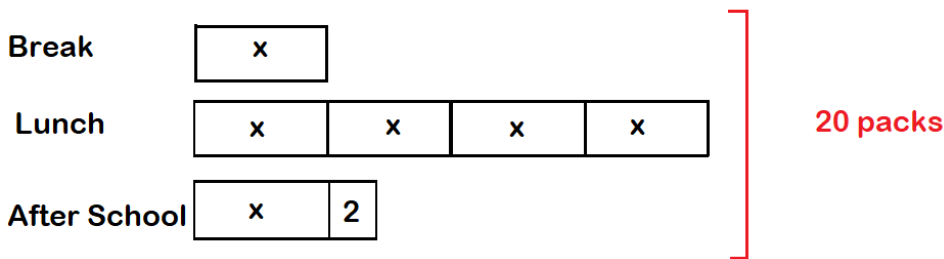
c) £21.60 2 marks for correct answer. Award one mark for sight of £2.40

17) 148 Award 2 marks for the correct answer. Award 1 mark for sight of 32 or for them filling in any angle in the one next to x and trying to take it away from 180.

18) a) 1.5 to 2 metres inclusive

b) 13 feet to 16 feet. This is dependent on their estimation for the man. The giraffe should be just over double their man height in metres and then they need to convert this to feet using 30cm = 1 foot. If they have made a correct conversion or estimated the giraffes height well enough in metres they can have 1 mark.

19) Here is one solution...



$20 - 2 = 18$

$18 \div 6 = 3$ Break = 3, Lunch = 12, After = 5

Correct answer is 3

Give one mark if they start to solve this problem methodically, by using trial and improvement or by doing 20 take away 2

Give two marks if they try to divide 18 by 6 or if they do at least 2 trials where they guess how many they sell at break and test it out to see if it is incorrect or not.

TOTAL MARKS: 46