

Saturday and Sunday's maths sheet comes with a special hello to Olly and Sophie and his family who are joining in with the maths. Great work! Well done to everyone who sent in their At-Home mock exam this week, and well done to parents who did WFH shifts as 11+ exam invigilators, your hilarious exam observations are giving us life. Also- last year's parents did seem to do a fair amount of... I don't want to say cheating but certainly "constructive helping" with the At-Home mocks, whereas this year's parents are dishing up the tough-love by the ladle. Keep it coming! Rachel :)

$$1. \quad \begin{array}{r} 16 \\ 48 \overline{) 768} \end{array}$$

$$2. \quad \begin{array}{r} 47 \\ 17 \overline{) 799} \end{array}$$

$$3. \quad \begin{array}{r} 9 \\ 84 \overline{) 756} \end{array}$$

$$4. \quad \begin{array}{r} \text{£}2.42 \\ 40 \overline{) \text{£}96.80} \end{array}$$

$$5. \quad \begin{array}{r} \text{£}4.27 \\ 22 \overline{) \text{£}93.94} \end{array}$$

$$6. \quad \begin{array}{r} \text{£}3.57 \\ 19 \overline{) \text{£}67.83} \end{array}$$

$$7. \quad \begin{array}{r} 920 \\ \times 73 \\ \hline 67,160 \end{array}$$

$$8. \quad \begin{array}{r} 547 \\ \times 42 \\ \hline 22,974 \end{array}$$

$$9. \quad \begin{array}{r} 210 \\ \times 85 \\ \hline 17,850 \end{array}$$

$$10. \quad \begin{array}{r} 31 \\ \times 55 \\ \hline 1,705 \end{array}$$

$$11. \quad \begin{array}{r} 32 \\ \times 48 \\ \hline 1,536 \end{array}$$

$$12. \quad \begin{array}{r} 66 \\ \times 47 \\ \hline 3,102 \end{array}$$

$$13. \quad \begin{array}{r} 94 \\ - 50 \\ \hline 44 \end{array}$$

$$14. \quad \begin{array}{r} 86 \\ - 76 \\ \hline 10 \end{array}$$

$$15. \quad \begin{array}{r} 91 \\ - 27 \\ \hline 64 \end{array}$$

$$16. \quad \begin{array}{r} 83 \\ - 51 \\ \hline 32 \end{array}$$

$$17. \quad \begin{array}{r} 76 \\ - 64 \\ \hline 12 \end{array}$$

$$18. \quad \begin{array}{r} 58 \\ - 21 \\ \hline 37 \end{array}$$

$$19. \quad \begin{array}{r} 77 \\ 50 \\ + 33 \\ \hline 160 \end{array}$$

$$20. \quad \begin{array}{r} 41 \\ 71 \\ + 83 \\ \hline 195 \end{array}$$

$$21. \quad \begin{array}{r} 51 \\ 51 \\ + 66 \\ \hline 168 \end{array}$$

$$22. \quad \begin{array}{r} 94 \\ 92 \\ + 10 \\ \hline 196 \end{array}$$

$$23. \quad \begin{array}{r} 71 \\ 58 \\ + 44 \\ \hline 173 \end{array}$$

$$24. \quad \begin{array}{r} 39 \\ 59 \\ + 42 \\ \hline 140 \end{array}$$

Convert the decimals to percentages.

25.  $0.44 = \underline{44\%}$     26.  $0.53 = \underline{53\%}$     27.  $0.15 = \underline{15\%}$     28.  $1 = \underline{100\%}$

29.  $0.24 = \underline{24\%}$     30.  $0.26 = \underline{26\%}$     31.  $0.73 = \underline{73\%}$     32.  $0.36 = \underline{36\%}$

Calculate the given percent of each value (which is a very mathsy way of saying work out the percentage of each number). There may be decimals.

33. 10% of 6 = 0.6    34. 10% of 80 = 8    35. 25% of 4 = 1

36. 50% of 8 = 4    37. 100% of 5 = 5    38. 75% of 7 = 5.25

39. 100% of 387 = 387    40. 50% of 2 = 1    41. 10% of 1 = 0.1

And finally, in a Verbal Reasoning/Maths crossover, find the next two numbers in the sequence!

42. 28, 33, 38, 43, 48, 53, 58, 63, 68 (+ 5)

43. 1.6, 2.3, 3, 3.7, 4.4, 5.1, 5.8, 6.5, 7.2 (+ 0.7)

44. 61, 56, 63, 58, 65, 60, 67, 62, 69 (- 5 + 7 - 5 + 7 - 5 + 7...)

45. 82, 79, 76, 73, 70, 67, 64, 61, 58 (- 3)

46. 1.4, 2, 2.6, 3.2, 3.8, 4.4, 5, 5.6, 6.2 (+ 0.6)

47. 21, 23, 25, 27, 29, 31, 33, 35, 37 (+ 2)

48. 19, 24, 31, 40, 51, 64, 79, 96, 115 (+ 5 + 7 + 9 + 11 + 13...)

49. 2.5, 2.9, 3.3, 3.8, 4.2, 4.8, 5.2, 5.9, 6.3 (+ 0.4 + 0.4 + 0.5 + 0.4 + 0.6...)