

Here are the answers for the Mid Year 4 Maths Reasoning Paper.

There were a couple that did not print out properly - the shading of shapes and ml in a jug, so we just drew our own and I accepted 500ml for half a litre.

- 1 103 and 76
- 2 1008
- 3 -2
- 4 150 and 400
- 5 xLVI
- 5b 62
- 6 symmetry is a mirror line so should look exactly the same both sides of the line. Diagonals.
- 7 450 and 575
- 8 £48
- 9  $27 \times 4 + 17 \times 6$  total £2.10 if inaccurate, one mark for the correct steps being calculated.
- 10 £2 080 and £1998
- 11 3 years 2010, 2012 and 2014
- 11b 35 more pupils 125-90
- 12 remainder 7
- 13 24 hundreds and 240 tens
- 14 0.6 2.2 3.1 3.4 13.8
- 15 10 left.  $20 \times 3 = 60$  taken by the children and  $70 - 60 = 10$
- 16  $76 + 224 = 300$  work it out from bonds of ten in the ones column.
- 17 90cm 1.15m - .25m
- 18 B E A C D (we have not done angles yet, but could see the size)
- 19 Perimeter is the rim all the way around so 240m  $80 + 40 + 40 + 80$
- 20  $3/4 = 0.75$   $8/10 = 0.8$  (This is what we were just learning)
- 21 You had to shade five triangles in above the line to be reflected below the mirror line.
- 22 £12.50
- 23 4km is 4000m 400cm is 4m
- 24 9 because half was 15 and  $1/5$  of  $30 = 6$  so  $30 - 15 - 6 = 9$
- 25 (5,3) x axis before y axis. Along the corridor and up the stairs. (only did one lesson on coordinates)
- 26 diamond goes to the bottom definition  
parallelogram has no lines of symmetry but has opposite sides are parallel.  
The bottom one has one pair of parallel sides.  
We have not covered shape yet this year so this relies on previous learning.
- 27 2 triangles =  $1/7$  also known as  $2/14$
- 28 The clock shows 20:20 and 8:20
- 29 500ml is half a litre. Could not see a line on the photocopy so did how many ml in  $1/2$  a litre.
- 30 the number-line went up 1 1.1 1.2 1.3 1.4 1.5 so the 1.24 goes just before halfway between the 1.2 and 1.3 I have told the children that thinking of money with ten p pieces and then pennies could help with decimals.

Please email me scores and any strengths and weaknesses.

Twinkl have free access to their resources for a month so feel free to browse and download activities and worksheets to consolidate and extend their learning.