MASTER MATHS GCSE

GCSE Mathematics 9-1

Arithmetic

(Non-Calculator)

Mark Scheme

Total available marks: 27

Q	Answer	Working	Mark
1	830	$400 + 300 = 700$, $50 + 70 = 120$, $8 + 2 = 10$ $700 + 120 + 10 = 830$	1
2	384	$967 - 500 = 467$ $467 - 83 = 384$	1
3	4065	$800 \times 5 = 4000$, $13 \times 5 = 65$ $4000 + 65 = 4065$	1
4	3.76	Bus stop method: $33.84 \div 9 = 3.76$ Check: $9 \times 3.76 = 33.84$	1
5	11 910	$7000 + 4000 = 11\,000$, $384 + 526 = 910$ $11\,000 + 910 = 11\,910$	1
6	4712	$124 \times 30 = 3720$, $124 \times 8 = 992$ $3720 + 992 = 4712$	1
7	4589	$8271 - 3000 = 5271$ $5271 - 682 = 4589$	1
8	6.2	$18 \div 3 = 6$, $0.6 \div 3 = 0.2$ $6 + 0.2 = 6.2$	1
9	9.27	Line up the decimal points: $6.40 + 2.87$	1
10	7.55	Line up the decimal points: $15.20 - 7.65$	1
11	14.4	$36 \times 4 = 144$ One decimal place in 3.6, so 14.4	1
12	12	$4.8 \times 2 = 9.6$ $4.8 \times 0.5 = 2.4$ $9.6 + 2.4 = 12$	2
13	126	Bus stop method: $7 \div 6 = 1$ r 1, $15 \div 6 = 2$ r 3, $36 \div 6 = 6$	1
14	69	$15 \times 60 = 900$, $1035 - 900 = 135$ $15 \times 9 = 135$ $60 + 9 = 69$	2
15	0.18	$6 \times 3 = 18$ Two decimal places in total, so 0.18	1
16	18	Multiply both numbers by 10: $72 \div 4$ $72 \div 4 = 18$	2

Q	Answer	Working	Mark
17	8970	$345 \times 20 = 6900$ $345 \times 6 = 2070$ $6900 + 2070 = 8970$	2
18	6.54	Line up the decimal points: $10.00 - 3.46$	1
19	£9.20	Cost of pens: $1.35 \times 8 = £10.80$ Change: $20 - 10.80 = £9.20$	3
20	20	$480 \div 24$ $24 \times 20 = 480$	2

Total available marks for this paper	**27**