Year 7 Class 16 questions

Q1

$2x + 5x - 7x =$ ( )

x^2 x 1 0

Q2

$3x^2 + 4x^2 - 2x^2 =$ ( )

$5x^2$ 5 $5x$ $4x^2$

Q3

$4a - 3b - a =$ [ ]

Q4

$6mn - 5mn =$ ( )

$m - n$ mn $m + n$

Q5

$10ab \div 2ab =$ [ ]

Q6

$-12ab \div -4 =$ [ ]

Q7

Consider the data on the spreadsheet.

	A	B	C
1	130	74	200
2	92	85	64
3	115	45	32
4	24	39	55
5	72	42	20

What would be the result of using the following formulas?

HINT: Try it in a spreadsheet if you're not sure.

=8*C2 ➡ [ ]

=A3+C4+B2 ➡ [ ]

=A2-C4 ➡ [ ]

=A4/C5 ➡ [ ]

=A3/C1*100 ➡ [ ]

=A4+B3/C5 ➡ [ ]

=SUM(C1:C5) ➡ [ ]

=SUM(A2:C2) ➡ [ ]

=AVERAGE(B1:B5) ➡ [ ]

=AVERAGE(A3:C3) ➡ [ ]

Q8

Consider the data on the spreadsheet.

What would be the result of using the following formulas?

	A	B	C
1	133	94	216
2	111	104	73
3	131	59	31
4	23	40	57
5	70	62	40

HINT: Try it in a spreadsheet if you're not sure.

=B4*C2 ➡ ☐

=A3+C4+B2 ➡ ☐

=A2-C4 ➡ ☐

=A4/C5*100 ➡ ☐

=200/B4 ➡ ☐

=B3+C1/C5 ➡ ☐

=SUM(C1:C5) ➡ ☐

=SUM(A2:C2) ➡ ☐

=AVERAGE(B1:B5) ➡ ☐

=AVERAGE(A4:C4) ➡ ☐

Q9

$4y - 3y + y =$ ☐

Q10

$3x + 4x - 2x =$ ☐

Q11

$7b - 6b + b =$ ☐

Q12

$4m^2 + 3mn + 2m^2 + n =$ ☐

$6m - 6mn^2 + n$ $3m^2 + 6mn + n$

$3mn + 6m^2 + n$

Q13

$4m^2 - m + 8 - 2m^2 - 5m - 1 =$ ☐

$2m^2 - 6m + 7$ $6m^2 + 2m - 7$ $7m^2 - 2m + 6$

Q14

$m^2 - 3m - 1 - 8m^2 + 5m - 7 =$ ☐

$8m^2 + 2m - 7$ $-2m^2 + 8m - 7$

$-7m^2 + 2m - 8$

Q15

$1 \div 7x =$ ☐

$7 - x$ $\frac{1}{7x}$ $7x$

Q16

$18 \div 6p =$ ☐

$18p$ $12p$ $\frac{3}{p}$

Q17

$20 \div 15m =$ ☐

$5m$ $\frac{4}{3m}$ $\frac{3m}{4}$

Q18

Consider the data on the spreadsheet.

What would be the result of using the following formulas?

	A	B	C
1	2	3	5
2	4	6	10
3	6	9	15
4	8	12	20
5	10	15	25

HINT: Try it in a spreadsheet if you're not sure.

=B4*C3 ➡ ☐

=A3-C4 ➡ ☐

=A4/C5*100 ➡ ☐

=INT(C5/A2) ➡ ☐

=INT(C5/A4) ➡ ☐

=LCM(A2,B2) ➡ ☐

=LCM(A3,C3) ➡ ☐

=MAX(B1:B5) ➡ ☐

=MAX(A5:C5) ➡ ☐

=SQRT(C5) ➡ ☐

Q19

Consider the data on the spreadsheet.

What would be the result of using the following formulas?

	A	B	C
1	3	4	5
2	6	8	10
3	9	12	15
4	12	16	20
5	15	20	25

HINT: Try it in a spreadsheet if you're not sure.

=A3^2 ➡ ☐

=B2^3 ➡ ☐

=-C5 ➡ ☐

=INT(C5/A2) ➡ ☐

=INT(C5/A1) ➡ ☐

=LCM(A2,B2) ➡ ☐

=LCM(A3,C3) ➡ ☐

=MAX(B1:B5) ➡ ☐

=MAX(A5:C5) ➡ ☐

=SQRT(B4) ➡ ☐

Q20

$4xy - 3xy + xy =$ ☐

Q21

$7ab - 6ab - 5ab =$ ☐

$4ab$ $-4ab$ $-3ab^2$ -4

Q22

$5ab - 4ab + 3ab - 2ab =$ ☐

$2ab$ $-2ab$ 2 $3ab^2$

Q23

$6mn - m^2 + 3n + 5n^2 - 3mn =$ ☐

$5mn - 3m^2 + n + 3n^2$ $3m^2 + mn - 3n^2 - 5n$

$3mn - m^2 + 3n + 5n^2$

Q24

$2ab + b + 2a + ab =$ ☐

$ab + 2a + 3b$ $2ab + 2a + a$ $3ab + 2a + b$

Q25

$5ab + ab + 3b + b =$ ☐

$6b - 4ab$ $6ab + 4b$ $4ab + 6b$

Q26

$\frac{a^2b^2}{ab} =$ ☐

Q27

$2a \times 6b \div 3ab =$ ☐

Q28

$\frac{12xy}{9x} =$ ☐

$\frac{4y}{3}$ $4xy$ $\frac{3}{4}$

Q29

Consider the data on the spreadsheet.

What would be the result of using the following formulas?

	A	B	C
1	5	6	8
2	10	12	16
3	15	18	24
4	20	24	32
5	25	30	40

HINT: Try it in a spreadsheet if you're not sure.

=A3^2 ➡ ☐

=C1^3 ➡ ☐

=2^C1 ➡ ☐

=SQRT(A5) ➡ ☐

=INT(C5/B1) ➡ ☐

=LCM(A2,B2) ➡ ☐

=MIN(A1:A5) ➡ ☐

=ROUND(C5/A3,1) ➡ ☐

=ROUND(C2/B5,2) ➡ ☐

Q30

Consider the data on the spreadsheet.

What would be the result of using the following formulas?

	A	B	C
1	3	9	15
2	4	40	37
3	5	41	19
4	12	37	4
5	10	65	72

HINT: Try it in a spreadsheet if you're not sure.

=A3^2 ➡ ☐

=B1^3 ➡ ☐

=(-2)^A5 ➡ ☐

=SQRT(A3^2+A4^2) ➡ ☐

=SQRT(B1^2+B2^2) ➡ ☐

=LCM(A4,C1) ➡ ☐

=MIN(B1:C5) ➡ ☐

=ROUND(C2/A4,1) ➡ ☐

=ROUND(C3/B5,2) ➡ ☐