Year 7 Class 16 questions

Q1

$2x + 5x - 7x =$ ( ) 0

x^2 x 1 0

Q2

$3x^2 + 4x^2 - 2x^2 =$ ( ) $5x^2$

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

Q3

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

Q4

$6mn - 5mn =$ ( )

mn

$m - n$ mn $m + n$

Q5

$10ab \div 2ab =$ [ ] 5

Q6

$-12ab \div -4 =$ [ ] $3ab$

Q7

Consider the data on the spreadsheet.

What would be the result of using the following formulas?

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

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

=8*C2 ➡ [ ] 512

=A3+C4+B2 ➡ [ ] 255

=A2-C4 ➡ [ ] 37

=A4/C5 ➡ [ ] 1.2

=A3/C1*100 ➡ [ ] 57.5

=A4+B3/C5 ➡ [ ] 26.25

=SUM(C1:C5) ➡ [ ] 371

=SUM(A2:C2) ➡ [ ] 241

=AVERAGE(B1:B5) ➡ [ ] 57

=AVERAGE(A3:C3) ➡ [ ] 64

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 → [ ] 2920

=A3+C4+B2 → [ ] 292

=A2-C4 → [ ] 54

=A4/C5*100 → [ ] 57.5

=200/B4 → [ ] 5

=B3+C1/C5 → [ ] 64.4

=SUM(C1:C5) → [ ] 417

= SUM(A2:C2) → [ ] 288

=AVERAGE(B1:B5) → [ ] 71.8

=AVERAGE(A4:C4) → [ ] 40

Q9

$4y - 3y + y =$ [ ] $2y$

Q10

$3x + 4x - 2x =$ [ ] $5x$

Q11

$7b - 6b + b =$ [ ] $2b$

Q12

$4m^2 + 3mn + 2m^2 + n =$ [ ] $3mn + 6m^2 + n$

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

$3mn + 6m^2 + n$

Q13

$4m^2 - m + 8 - 2m^2 - 5m - 1 =$ [ ] $2m^2 - 6m + 7$

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

Q14

$m^2 - 3m - 1 - 8m^2 + 5m - 7 =$ [ ] $-7m^2 + 2m - 8$

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

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

Q15

$1 \div 7x =$ [ ] $\frac{1}{7x}$

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

Q16

$18 \div 6p =$ [ ] $\frac{3}{p}$

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

Q17

$20 \div 15m =$ [ ] $\frac{4}{3m}$

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

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 ➡ [ ] 180

=A3-C4 ➡ [ ] -14

=A4/C5*100 ➡ [ ] 32

=INT(C5/A2) ➡ [ ] 6

=INT(C5/A4) ➡ [ ] 3

=LCM(A2,B2) ➡ [ ] 12

=LCM(A3,C3) ➡ [ ] 30

=MAX(B1:B5) ➡ [ ] 15

=MAX(A5:C5) ➡ [ ] 25

=SQRT(C5) ➡ [ ] 5

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 ➡ [ ] 81

=B2^3 ➡ [ ] 512

=-C5 ➡ [ ] -25

=INT(C5/A2) ➡ [ ] 4

=INT(C5/A1) ➡ [ ] 8

=LCM(A2,B2) ➡ [ ] 24

=LCM(A3,C3) ➡ [ ] 45

=MAX(B1:B5) ➡ [ ] 20

=MAX(A5:C5) ➡ [ ] 25

=SQRT(B4) ➡ [ ] 4

Q20

$4xy - 3xy + xy =$ [ ] $2xy$

Q21

$7ab - 6ab - 5ab =$ [ ] $-4ab$

$4ab$ $\quad -4ab$ $\quad -3ab^2$ $\quad -4$

Q22

$5ab - 4ab + 3ab - 2ab =$ [ ] $2ab$

$2ab$ $\quad -2ab$ $\quad 2$ $\quad 3ab^2$

Q23

$6mn - m^2 + 3n + 5n^2 - 3mn =$ ( )

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

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

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

Q24

$2ab + b + 2a + ab =$ ( )

$3ab + 2a + b$

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

Q25

$5ab + ab + 3b + b =$ ( )

$6ab + 4b$

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

Q26

$\frac{a^2b^2}{ab} =$ [ ] ab

Q27

$2a \times 6b \div 3ab =$ [ ] 4

Q28

$\frac{12xy}{9x} =$ [ ] $\frac{4y}{3}$

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

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 ➡ [ ] 225

=C1^3 ➡ [ ] 512

=2^C1 ➡ [ ] 256

=SQRT(A5) ➡ [ ] 5

=INT(C5/B1) ➡ [ ] 6

=LCM(A2,B2) ➡ [ ] 60

=MIN(A1:A5) ➡ [ ] 5

=ROUND(C5/A3,1) ➡ [ ] 2.7

=ROUND(C2/B5,2) ➡ [ ] 0.53

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 ➡ [ ] 25

=B1^3 ➡ [ ] 729

=(-2)^A5 ➡ [ ] 1024

=SQRT(A3^2+A4^2) ➡ [ ] 13

=SQRT(B1^2+B2^2) ➡ [ ] 41

=LCM(A4,C1) ➡ [ ] 60

=MIN(B1:C5) ➡ [ ] 4

=ROUND(C2/A4,1) ➡ [ ] 3.1

=ROUND(C3/B5,2) ➡ [ ] 0.29