2. (i) $3x + 8 = 15$ = 3 x plus 8 is equal to 15

(ii) $7 - y > x$ = 7 decreased by y is greater than x

(iii) $2y - x < 12$ 2y decreased by x is less than 12

(iv) $5 \div 2 = 5$ 5 divided by 2 is equal to 5

(v) $a + 2b > 18$ = a increased by 2b is greater than 18

3

iii. $-ab^2$, $7b^2a$, $2ab^2$ and b^2a^2, $-3a^2b^2$

iv. $5ax$, $7xa$, $\frac{2ax}{3}$ and $-5bx$, $\frac{bx}{7}$

3 i 16 is a constant and x is a varible, but 16x is varible = True

ii. 5x has two terms 5 and x = False

iii. The expression $5+x$ has two terms 5 and x, = True

iv. The expression $2x^2+x$ is a trinomial. = False

v. ax^2+bx+c is a trinomial. = True

vi $8x \cdot ab$ is a binomial = False

vii $8+ab$ is a binomial = True

viii $x^3-5xy+6x+7$ is a polynomial. = True

ix. $x^3-5xy+6x+7$ is a Multinomial = True

x The coefficient of x in $5x$ is $5x$ = False

xi The coefficient of ab in $-ab$ is -1 = True

xii The coefficient of y in $-3xy$ is -3 = False

9x28

3 i 16 is a constant and x is a varible, but 16x is varible = True

ii. 5x has two terms 5 and x = False

iii. The expression 5+x has two terms 5 and x, = True

iv. The expression $2x^2 + x$ is a trinomial. = False

v. $ax^2 + bx + c$ is a trinomial. = True

vi 8 x ab is a binomial = False

vii 8 + ab is a binomial = True

viii $x^3 - 5xy + 6x + 7$ is a polynomial. = True

ix. $x^3 - 5xy + 6x + 7$ is a Multinomial = True

x The coefficient of x in 5x is 5x = False

xi The coefficient of ab in -ab is -1 = True

xii The coefficient of y in -3xy is -3 = False

5. Ex - 18B True or false

i. $x \cdot y$ and $-yx$ are like terms = True
ii. x^2y^2 and y^2x are like terms . = False
iii. a and -a are like terms = True
iv. -ba and 2ab are unlike terms = False
v. 5 and 5x are like terms = False
vi. 3xy and 4xyz are unlike terms = True

6

i. $xy \div 0$ = Monomial
ii. $xy + x$ = Binomial
iii. $2x \div y$ = Monomial

9.

1. $5xy = 5$
2. $abc = 1$
3. $5pqr = 5$

1. L-19

i. $5+4 = 9$
ii. $12+8 = 3$
iii. $7+16 =$
iv. $1+3 =$
v. $7-4 =$
vi. $12-5 =$
vii. $35-16$
viii. $28-1$

2.

i. The

times of x is equal to 5z. - 12x x = 5z

x. 12 times of x is greater than 5z - 12x x > 5z

xi. 12 times of x is less than 5z - 12x x < 5z

xii. 3z subtract from 45 is equal to y. 45 - 3z = y

xiii. 8x divided by y is equal to 27 = 8 ÷ y = 27

xiv. 7x subtracted from 5x gives 8z - 5x - 7x = 8z

xv. 7y decreased by 5x gives 8z → 7y - 5x = 8z

2. (i) 3x + 8 = 15 = 3x plus 8 is equal to 15

(ii) 7 - y > x = 7 decreased by y is greater than x

(iii) 2y - x < 12 2y decreased by 3y is equal to 12

(iv) 5 ÷ 2 - 5 5 divided by 2 is equal to 5

(v) a + 2b > 18 = a increased by 2b is greater than 18

5. Ex - 18B True or false

i. $x \cdot y$ and $-yx$ are like terms = True

ii. x^2y^2 and y^2x are like terms. = False

iii. a and $-a$ are like terms = True

iv $-ba$ and $2ab$ are unlike terms = False

v. 5 and $5x$ are like terms = False

vi. $3xx$ and $4xyz$ are unlike terms = True

vi. 3xx and 4xyz are unl

6

i. xy0 = Monomial
ii. xy+x = Binomial
iii. 2x÷y = Monomial
iv. -a = Monomial
v. $ax^2 - x + 5$ = Trinomial
vi. -3bc+d = Binomial
vii 1+x+y = Trinomial
viii 7+x÷y = Binomial
ix $x + xy = y^2$ = Trinomial

9.
1.
2.
3
4
5
6

7 i. x = 1
ii -x = -1
iii -3x = -3
iv -5ax = -5a
v $\frac{3}{2}xy = \frac{3}{2}y$
vi ax÷x = $\frac{a}{x}$

8.
i x in $-3xy^2 = -3x^2$
ii x in -ax = -a
iii y in -y = -1
iv y in $\frac{2}{a}x = \frac{2}{a}$
v x is in $-2xyz = -2z$
vi ax in $axy^2 = -y^2$
vii x^2y in $-3ax^2y = -3a$
viii xy^2 in $5axy^2 = 5a$

7 i. $x = 1$

ii $-x = -1$

iii $-3x = -3$

iv $-5ax = -5a$

v $\frac{3}{2}xy = \frac{3}{2}y$

vi $ax \cdot x = \frac{a}{x}$