

Year 7 Class 17 questions

Q1

Select all the terms below which are **like terms** of $3ab$.

$12a$ → $7ab$ $-3a^2b$
 $4a$ → $-2ab$

Q2

Which of the following are **NOT** like terms of $-3ca$.

→ -3 $2ac$ → $\frac{4c^2}{a}$ → $5ac^2$

Q3

$9y \times -2 =$ $-18y$

Q4

$\frac{1}{3}y \times 15y =$ $5y^2$

$14y$

$45y^2$

$5y^2$

Q5

Expand:

$3(2-x) =$ $6-3x$

Q6

Solve the equation to find x .

$x - 15 = -3$

$x =$ 12

Q7

Which of the following is **NOT** a like term?

$\frac{abc}{3}$ → abd $5abc$

Q8

Which of the following are **NOT** like terms of $3xyz$.

→ $-3x$ $\frac{2xyz}{5}$ $-3yzx$ → $\frac{2xy}{z}$

Q9

Which of the following are **NOT** like terms of $4pqr$.

→ $2pq$ → $\frac{3pr}{q}$ → $6p^2qr$ → $-5p^2q^2r^2$

Q10

$\frac{1}{4} \times 36m =$ $9m$

Q11

$m \times n \times 4m =$ $4m^2n$

$5mn$

$5m+n$

$4m^2n$

Q12

$4n \times 2n \times m =$ $8mn^2$

$8mn^2$

$6n+m$

$5mn$

Q13Expand $5(3a-2)$.

- $15a-2$
 $8a-10$
 $15a-10$
 $8a-2$

Q14Expand $6(3+5x)$.

- $3+30x$
 $18+30x$
 $18+5x$
 $48x$

Q15Expand $3(a-4)$.

- $a-12$
 $3a-12$
 $-9a$
 $3a-4$

Q16Solve the equation to find x .

$$30 + x = 89$$

$$x = \boxed{} \quad 59$$

Q17Solve the equation to find y .

$$35 + y = 49$$

$$y = \boxed{} \quad 14$$

Q18Solve the equation to find a .

$$50 + a = 113$$

$$a = \boxed{} \quad 63$$

Q19Select all the terms below which are like terms of $7p^2qr$.

$7pqr$ $-6pq^2r$ $-3rp^2q$ $\frac{-5qrp^2}{4}$

Q20Which of the following are **NOT** like terms of $4pq^2r$.

$-3r^2pq$ $\frac{-5rpq^2}{3}$ $4p^2qr$ $6q^2pr$

Q21Which of the following are **NOT** like terms of $-3a^2b^2c$.

$2ab^2c$ $-5c^2ba^2$ $\frac{3abc^2}{4}$ $\frac{-6b^2ca}{7}$

Q22Simplify $d \times e \times u \times x$.

- $deux$ $de+ux$
 de^2ux $2deu$

Q23

$$4m \times -3mn \times -m = \boxed{} \quad 12m^3n$$

$$3m - 3mn$$

$$12m^3n$$

$$12mn$$

Q24

$$-2m \times 3mp \times -m = \text{[]} \quad 6m^3p$$

$6m^3p$

$3mp - 3m$

$6m^2p$

Q25

Expand $7(3x - 4y + 2z)$.

$21x - 4y + 2z$

$21x - 28y + 14z$

$10x - 3y + 9z$

$21x - 28y + 2z$

Q26

Expand $2(3a + 2b + 4c)$.

$6a + 4b + 8c$

$6a + 2b + 4c$

$18abc$

$3a + 4b + 8c$

Q27

Expand $4(2x - 5y - z)$.

$8x - 20y - z$

$8x - 20y - 4z$

$2x - 20y - 4z$

$8x - 5y - 4z$

Q28

Solve the equation to find a .

$$a + 8.3 = 20.5$$

$$a = \text{[]} \quad 12.2$$

Q29

Solve the equation to find b .

$$b - 23.46 = 66.19$$

$$b = \text{[]} \quad 89.65$$

Q30

Solve the equation to find c .

$$15.84 + c = 43.44$$

$$c = \text{[]} \quad 27.6$$