

Year 7 Class 17 questions

Q1

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

$$\begin{array}{ccc} 12a & 7ab & -3a^2b \\ 4a & -2ab & \end{array}$$

Q2

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

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

Q3

$$9y \times -2 = \boxed{}$$

Q4

$$\frac{1}{3}y \times 15y = \boxed{}$$

$$\boxed{14y} \quad \boxed{45y^2} \quad \boxed{5y^2}$$

Q5

Expand:

$$3(2-x) = \boxed{}$$

Q6

Solve the equation to find x .

$$\begin{aligned} x - 15 &= -3 \\ x &= \boxed{} \end{aligned}$$

Q7

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

$$\frac{abc}{3} \quad abd \quad 5abc$$

Q8

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

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

Q9

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

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

Q10

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

Q11

$$m \times n \times 4m = \boxed{}$$

$$\boxed{5mn} \quad \boxed{5m+n} \quad \boxed{4m^2n}$$

Q12

$$4n \times 2n \times m = \boxed{}$$

$$\boxed{8mn^2} \quad \boxed{6n+m} \quad \boxed{5mn}$$

Q13

Expand $5(3a-2)$.

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

Q14

Expand $6(3 + 5x)$.

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

Q15

Expand $3(a - 4)$.

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

Q16

Solve the equation to find x .

$$30 + x = 89$$
$$x = \boxed{}$$

Q17

Solve the equation to find y .

$$35 + y = 49$$
$$y = \boxed{}$$

Q18

Solve the equation to find a .

$$50 + a = 113$$
$$a = \boxed{}$$

Q19

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

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

Q20

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

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

Q21

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

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

Q22

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

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

Q23

$$4m \times -3mn \times -m = \boxed{}$$

$$3m - 3mn \quad 12m^3n \quad 12mn$$

Q24

$$-2m \times 3mp \times -m = \boxed{}$$

$$6m^3p \quad 3mp - 3m \quad 6m^2p$$

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 .

$$a + 8.3 = 20.5$$

$$a = \boxed{}$$

Q29

Solve the equation to find b .

$$b - 23.46 = 66.19$$

$$b = \boxed{}$$

Q30

Solve the equation to find c .

$$15.84 + c = 43.44$$

$$c = \boxed{}$$