



ALGEBRA Grade 6
30 Questions

NAME : _____

CLASS : _____

DATE : _____

1. John bought x kg of pears and 5 kg of apples. Total mass of the fruits was....

☐ A $(x + 5)$ kg

☐ B 50 kg

☐ C $(x - 5)$ kg

☐ D $5x$ kg

2. Pam jogged j km on Monday. She jogged 7 km less on Tuesday. What was the distance she jogged on Tuesday?

☐ A $(j + 7)$ km

☐ B $7j$ km

☐ C $(j - 7)$ km

☐ D $(7 - j)$ km

3. Lily packed c snacks on each packet. She made 18 such packets. How many snacks did she pack?

☐ A $18 - c$

☐ B $18c$

☐ C $c - 18$

☐ D $\frac{18}{c}$

4. Ron read p pages in 50 minutes. How many pages did he read in 1 minute?

☐ A $50p$ pages

☐ B $(p + 50)$ pages

☐ C $(p - 50)$ pages

☐ D $\frac{p}{50}$ pages

5. Add q to 16

☐ A $16 + q$

☐ B $16 - q$

☐ C $\frac{16}{q}$

☐ D $16q$

6. subtract 6 from t

☐ A $t - 6$

☐ B $\frac{t}{6}$

☐ C $6t$

☐ D $6 - t$

7. 8 groups of d

☐ A $8d$

☐ B $d - 8$

☐ C $8 - d$

☐ D $\frac{8}{d}$

8. divide s by 10

☐ A $\frac{s}{10}$

☐ B $\frac{10}{s}$

☐ C $10 - s$

☐ D $10s$

9. subtract 5 from the product of p and 4

☐ A $5 - 4p$

☐ B $p - 5 - 4$

☐ C $4p - 5$

☐ D $5 - p + 4$

10. Find the value of $12 + m$ when $m = 7$

☐ A 29

☐ B -9

☐ C 9

☐ D 19

11. Find the value of $p + 7$ when $p = -9$

☐ A 2

☐ B 16

☐ C -16

☐ D -2

12. Find the value of $15 - n$ when $n = 10$

☐ A 5

☐ B -5

☐ C 25

☐ D -25

13. Find the value of $b - 8$ when $b = 5$

A 3

C -3

B -13

D 13

14. Find the value of $6z$ when $z = 3$

A 18

C 9

B 2

D 3

15. find the value of $\frac{p}{7}$ when $p = 35$

A 28

C 21

B 3

D 5

16. Find the value of $3m - 4$ when $m = 7$

A 18

C 15

B 16

D 17

17. Find the value of $\frac{d}{4} + 4$ when $d = 20$

A 8

C 24

B 9

D 16

18. Algebraic expression of $a + a + a =$

A $\frac{a}{3}$

C $a - 3$

B $3 + a$

D $3a$

19. Algebraic expression of $7 \times j =$

A $\frac{7}{j}$

C $7j$

B $7 - j$

D $7 + j$

20. $8r - 5r + 1r =$

☐ A $2r$

☐ C $6 - r$

☐ B $r - 5$

☐ D $4r$

21. $7p + 3p - p =$

☐ A $9 + p$

☐ C $p - 9$

☐ B $9 - p$

☐ D $9p$

22. $6t - 4t + 3 =$

☐ A $t + 3$

☐ C $10t - 3$

☐ B $-2t + 3$

☐ D $2t + 3$

23. $5e + 2e + 4 + 3e =$

☐ A $11e + 3$

☐ C $10e - 4$

☐ B $7e + 7$

☐ D $10e + 4$

24. $10n + 7 + n - 5 =$

☐ A $11n + 12$

☐ C $11n + 2$

☐ B $17n + 2$

☐ D $11n - 2$

25. Lin has 5 kg of flour. She buys 2 more packets of flour, each of mass m kg. Find the amount of flour Lin has altogether in term of m .

☐ A $(5 - 2m)$ kg

☐ C $7m$ kg

☐ B $(5 + 2m)$ kg

☐ D $(5m + 2)$ kg

26. Peter bought z robux at \$2 each. Find the amount of money he spent in term of z

☐ A $\$2 - z$

☐ C $\$2z + 2$

☐ B $\$2 + z$

☐ D $\$2z$

27. Mrs. Qin bought d bottles of syrup at \$4 each. She gave the cashier \$50. Find the change Mrs. Qin received in term of d .

☐ A $\$46d$

☐ B $\$(50d - 4)$

☐ C $\$54d$

☐ D $\$(50 - 4d)$

28. Lizz had 15 stickers. Bony has n less stickers than Lizz. Find the total stickers they have altogether in term of n

☐ A $(15n + n)$ stickers

☐ B $(15 - n)$ stickers

☐ C $15 + (15 - n)$ stickers

☐ D $(15 + n)$ stickers

29. Mrs. Jane had y meters of ribbon. She used 2 meters to make headband. She used the remaining ribbon to make 4 dresses. Find the amount of ribbon used to make each dress in term of y

☐ A $(y - 4) : 2$ meters

☐ B $(y + 2) : 4$ meters

☐ C $4(y - 2)$ meters

☐ D $(y - 2) : 4$ meters

30. Beth uses a piece of wire 40 cm long to form a rectangle. The length of the rectangle is 3 times its breadth. Find the breadth of the rectangle.

☐ A 25 cm

☐ B 15 cm

☐ C 5 cm

☐ D 10 cm