



Name: _____

Class: _____

Write the expression for each question, where n is the number.

1. Add 11 to a number. $n + 11$

2. Total 26 and a number. $26 + n$

3. 17 plus a number. $17 + n$

4. Subtract 6 from a number. $n - 6$

5. Take 16 away from a number. $n - 16$

6. 40 less than a number. $n - 40$

7. Decrease a number by 28. $n - 28$

8. 18 less a number. $18 - n$

9. 5 times a number. $5n$

10. 12 multiplied by a number. $12n$

11. A number multiplied by 12. $12n$

12. 15 lots of a number. $15n$

13. The product of 4 and a number. $4n$

14. Triple a number. $3n$

15. 15 divided by a number. $\frac{15}{n}$

16. A number divided by 3. $\frac{n}{3}$

17. 12 shared by a number. $\frac{12}{n}$

18. A number in groups of 5. $\frac{n}{5}$

19. Double a number, then plus 9. $2n + 9$

20. 4 times a number and then subtract 3. $4n - 3$

21. 3 add double a number. $3 + 2n$

22. 7 multiplied by a number, then take away 30. $7n - 30$



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Write an algebraic expression for each question and then solve the problem.

Game 1.

One point for the right algebraic formula,
one point for the correct answer.

What was the total points scored if Manu scores 390 and Meg scored 470?
Where P is the total number of points.

$$P = 390 + 470 \text{ (written in any commutative way)}$$

$$P = 860$$

Game 2.

Chip and Meg collected 60 asteroids in total.
If Meg collected 33, how many did Chip collect?
Where A is the number of asteroids Chip collected?

$$60 = 33 + A \quad \text{or} \quad 60 - A = 33$$

$$A = 27$$

Game 3.

Meg scored 22 asteroids fewer than Chip.
If Meg scored 17, how many more points did Chip score?
Where A is the total asteroids Chip scored.

$$A = 22 + 17$$

$$A = 39$$



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Game 4.

Chip was on 540 points but hit a spaceship and lost points.

He is now on 350 points. How many points did he lose?

Where P is the number of points deducted.

$$P = 540 - 350 \quad \text{or} \quad P + 350 = 540$$

$$P = 190$$

Game 5.

If an asteroid is worth 15 points,

how many asteroids does Meg need to destroy to score 330 points?

Where A is the number of asteroids Meg destroyed.

$$330 = 15A \quad \text{or} \quad \frac{330}{15}$$

$$A = 22$$

Do not forget to write your algebraic expression, and then find the answers for all the parts of this problem.

The decider.

With 5 seconds to go, Chip has destroyed 18 asteroids and Meg 14 asteroids.

If an asteroid is worth 15 points each, what is their total number of points for the two of them at this stage?

Where P is the total number of points of Chip and Meg with 5 seconds to go.

$$P = (18 \times 15) + (14 \times 15)$$

$$P = 270 + 210$$

$$P = 480$$



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In the final second, Chip destroyed a UFO and lost 50 points and Meg destroyed one more asteroid. Find the final total number of points each person scored at the end. Where Q is the number of points Chip finally had and R is the total number of points Meg had.

$$Q = (270 - 50) \quad R = (210 + 15)$$

$$Q = 220 \quad R = 225$$

Who won the decider? **Meg**

What was the total points scored by Chip and Meg in the decider?
Where D is the total points scored in the decider by both players

$$D = Q + R$$

$$D = 220 + 225$$

$$D = 445$$

- GAME OVER -

