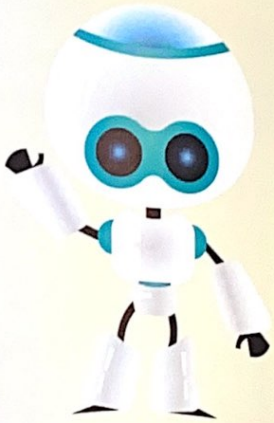
Algebra

Remember to check if the brackets will change the calculation order.

Solve these problems.

1. $(8 + 3) \times 9 = \square$
2. $8 + (3 \times 9) = \square$
3. $14 \div (15 - 8) = \square$
4. $12 \div (18 \div 3) = \square$
5. $(22 - 8) \times 2 = \square$
6. $2 \times (10 + 5) = \square$



Solve these problems.

7. $6 + m = 9$
   $m = \square$
8. $t + 5 = 13$
   $t = \square$
9. $w - 1 = 7$
   $w = \square$
10. $6 - y = 2$
    $y = \square$
11. $20 - n = 11$
    $n = \square$
12. $25 - q = 19$
    $q = \square$
13. $r + 15 = 30$
    $r = \square$
14. $64 + s = 100$
    $s = \square$

$m \times 6$ has the same answer as $m \times 2 + 16$.
What is the value of m?

I am confident with solving calculations using brackets and finding a missing value in a problem.

Solve these problems.

1. $(28 - 15) + 9 = \square$
2. $3 \times (117 - 95) = \square$
3. $2 \times (7{\cdot}2 \times 6) = \square$
4. $18 \div (3 \times 2) = \square$
5. $4 \times (9 \div 3) = \square$
6. $(6{\cdot}4 - 4{\cdot}2) \div 2 = \square$

Now find the value of the letter in each calculation.

7. $45 - d = 21$
   $d = \square$
8. $78 - a = 45$
   $a = \square$
9. $12 \times k = 96$
   $k = \square$
10. $6h = 42$
    $h = \square$

11. $\frac{88}{m} = 4$
    $m = \square$
12. $68 + c = 92$
    $c = \square$
13. $\frac{w}{3} = 12$
    $w = \square$
14. $t - 36 = 54$
    $t = \square$

THINK

$m \times (6 + 3)$ has the same answer as $m \times 3 + 24$.
What is the value of m?

I am confident with solving calculations using brackets and finding a missing value in a problem.

Solve these problems.

1. $(28 \div 7) + 93 = \square$
2. $275 - (160 + 17) = \square$
3. $(275 - 160) + 17 = \square$
4. $3 \times (14 \div 7) + 5{\cdot}5 = \square$
5. $9 \div (3 + 1{\cdot}5) = \square$
6. $4 \times (2{\cdot}2 \div 2) - 3{\cdot}4 = \square$

Now find the value of the letter in each calculation.

7. $m \times 5 + 4 = 39$
   $m = \square$
8. $9 \times (6 + j) = 81$
   $j = \square$
9. $t \times 3 - 7 = 20$
   $t = \square$
10. $4 \times (2 + s) = 48$
    $s = \square$
11. $2n + 3 = 21$
    $n = \square$
12. $w \times (5 - 2) = 33$
    $w = \square$
13. $10\ (q - 4) = 60$
    $q = \square$
14. $3 \times (10 - y) = 27$
    $y = \square$

Using only these number cards, make the number sentence work.

$1\frac{1}{2}$	$2\frac{1}{2}$	$3\frac{1}{2}$	2	3

15. $(\square + \square) \times \square = 10$

$4 \times (18 - m)$ has the same answer as $(16 - 12) \times m$.
What is the value of m?

I am confident with solving calculations using brackets and finding a missing value in a problem.

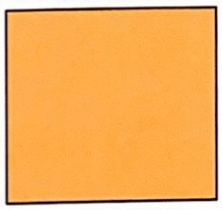
Find the value of the letter in each calculation.

1. $5c + 4 = 54$
2. $4m + 5 = 17$
3. $10 - 2b = 4$
4. $20 - n = 3$
5. $3v + 4 = 12 - v$
6. $10 - b = 4b$

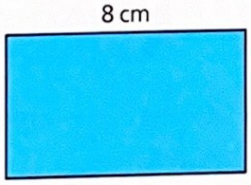
Find a pair of numbers that work in both equations.

7. $m + n + 2 = 11$
   $m - n = 5$
8. $p + q = 20$
   $2p = 10$
9. $a + 2b = 10$
   $a - b = 4$

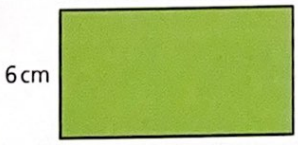
Find the lengths of the missing sides.

10. 

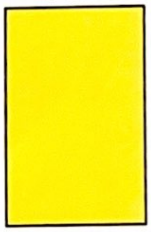
area = 35 cm²

11. 

perimeter = 26 cm

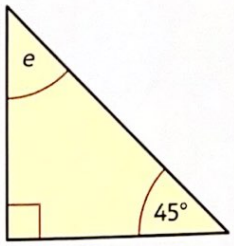
12. 

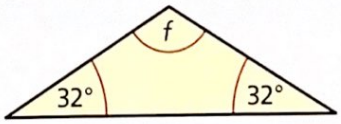
area = 69 cm²

13. 

perimeter = 24 cm

Find the missing angles.

14. 

15. 

THINK

An isosceles triangle has one angle which is three times the value of the other two. What are its angles?

I am confident with finding a missing value in a problem.