



Colin and Coco's Daily Maths Workout

Workout 3.1

Answers

Multiplication





Multiplication Workout

Workout A

$4 \times 5 = 20$

$6 \times 5 = 30$

$4 \times 3 = 12$

$4 \times 12 = 48$

$3 \times 9 = 27$

$3 \times 8 = 24$

$3 \times 7 = 21$

$12 \times 3 = 36$

$8 \times 4 = 32$

$8 \times 9 = 72$

$8 \times 6 = 48$

$8 \times 12 = 96$

$4 \times 6 = 24$

$4 \times 7 = 28$

$4 \times 4 = 16$

$4 \times 11 = 44$

Addition Workout 2

Workout B

$56 = 4 \times 14$

$72 = 4 \times 18$

$64 = 4 \times 16$

$68 = 4 \times 17$

$84 = 14 \times 6$

$112 = 14 \times 8$

$45 = 15 \times 3$

$117 = 13 \times 9$

$48 = 3 \times 16$

$51 = 3 \times 17$

$54 = 3 \times 18$

$42 = 3 \times 14$

$104 = 13 \times 8$

$128 = 16 \times 8$

$152 = 19 \times 8$

$138 = 17 \times 8$

Addition Workout 3

Workout C

$4 \times 32 = 128$

$4 \times 71 = 284$

$4 \times 64 = 256$

$4 \times 95 = 380$

$3 \times 41 = 123$

$3 \times 83 = 249$

$3 \times 74 = 222$

$3 \times 69 = 207$

$8 \times 31 = 248$

$8 \times 61 = 488$

$8 \times 36 = 288$

$8 \times 87 = 696$

$4 \times 62 = 248$

$3 \times 52 = 156$

$3 \times 74 = 222$

$3 \times 85 = 255$



Join Up - A Multiplication Game

Workout D

You need:

Counters (or you could colour the squares instead of putting counters on them if you like.)

Products of 3 Board (on the next page)

To play:

Every time it is your turn you cover two numbers on the board.

One of your numbers multiplied by 3 must equal your other number.

The two numbers you cover do not need to be next to each other on the board.

e.g. You could choose to cover a 5 and a 15 because $5 \times 3 = 15$

or you could choose to cover a 7 and a 21 because $7 \times 3 = 21$ and so on.

To win:

The winner is the first player to cover five numbers in a line, horizontally, vertically or diagonally.



Missing Number Workout

Workout E

Choosing from the digits 3, 4, 6 and 8 in any combinations, how close can you get to an answer of 265?

Try several possible calculations. You can use a digit twice in one calculation.

Possible
Solution

$$\begin{array}{r} \boxed{8} \boxed{8} \\ \times \quad \boxed{3} \\ \hline 2 \quad 6 \quad 4 \end{array}$$

Possible
Solutions

Solve each calculation in at least two ways.

$$\begin{array}{|c|c|} \hline 4 & 0 \\ \hline 8 & 0 \\ \hline \end{array} \times \begin{array}{|c|} \hline 6 \\ \hline 3 \\ \hline \end{array} = 240$$

$$\begin{array}{|c|c|} \hline 2 & 0 \\ \hline 4 & 0 \\ \hline \end{array} \times \begin{array}{|c|} \hline 8 \\ \hline 4 \\ \hline \end{array} = 160$$

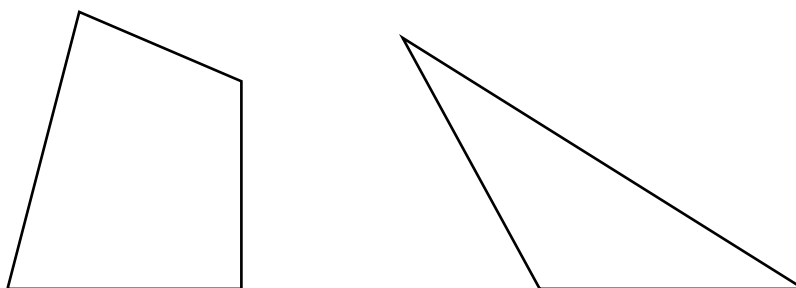
$$\begin{array}{|c|c|} \hline 6 & 0 \\ \hline 9 & 0 \\ \hline \end{array} \times \begin{array}{|c|} \hline 6 \\ \hline 4 \\ \hline \end{array} = 360$$

$$\begin{array}{|c|c|} \hline 3 & 0 \\ \hline 4 & 5 \\ \hline \end{array} \times \begin{array}{|c|} \hline 6 \\ \hline 4 \\ \hline \end{array} = 180$$



Shape Challenge

Workout F



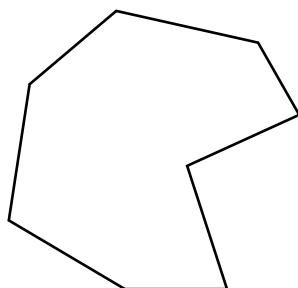
Colin has collection of cards with triangles and quadrilaterals on. He picks some cards and there are 48 sides in total.

How many of each type of shape might he have chosen?

Triangles	Quadrilaterals
0	12
4	9
8	6
12	3
16	0

What if the total number of sides was 60?

Triangles	Quadrilaterals
20	0
16	3
12	6
8	9
4	12
0	15



If there were octagons in the collection too, how does that change the number of possible combinations?

There will be less as the number of sides of one octagon is twice the number of sides of one quadrilateral



Word Problem Workout

Be careful - they are not all multiplication problems!

Colin is planting bulbs.

He plants 23 bulbs in each pot. There are 8 pots.

How many bulbs does he plant in total? **184**

Colin has taken up jogging.

He jogs 8km each day.

How far will he have jogged in 21 days? **168**

Colin loves apples.

Each crate has 30 apples in it.

How many apples are there in 4 crates? **120**

Coco has 48 sweets.

Coco has three times as many sweets as Colin.

How many sweets does Colin have? **16**

Coco loves crackers. She buys 3 packs of crackers.

There are 16 crackers in each pack.

She eats 12 crackers.

How many crackers does she have left? **36**

Create your own problems for 14×3



Example

Number of the Day Workout

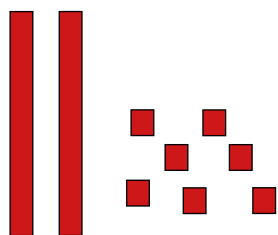
Workout H

Today's number is 27

Write it in words

Twenty-seven

Draw It



Double It

54

Halve It

13
and one left over

List its factors

1, 3, 9, 27

List some multiples

27, 54, 81, 108, ...

10 more

37

10 less

17

Calculation so it
is the difference.

$30 - 3$

Calculation so it
is the total.

$20 + 7$