

Colin and Coco's Daily Maths Workout

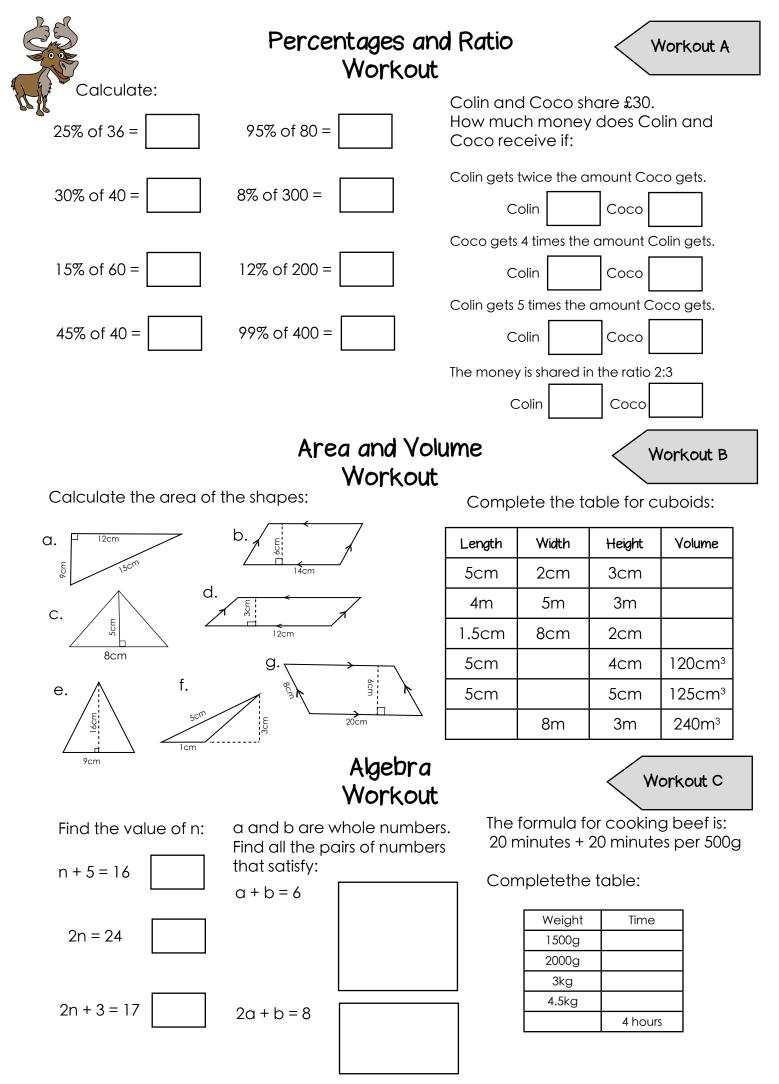


Workout 6.13



KPIs for Term 4

Find percentages of an amount Use simple ratio to compare quantities Convert between different units of metric measure Calculate the area of triangles/parallelograms Calculate volumes of cuboids Use simple formulae expressed in words Find possible values in missing number problems involving one or two unknowns



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You need: (print off the cards) Game Template Card Set A for each player.

To play:

Each card set is shuffled and placed face down.

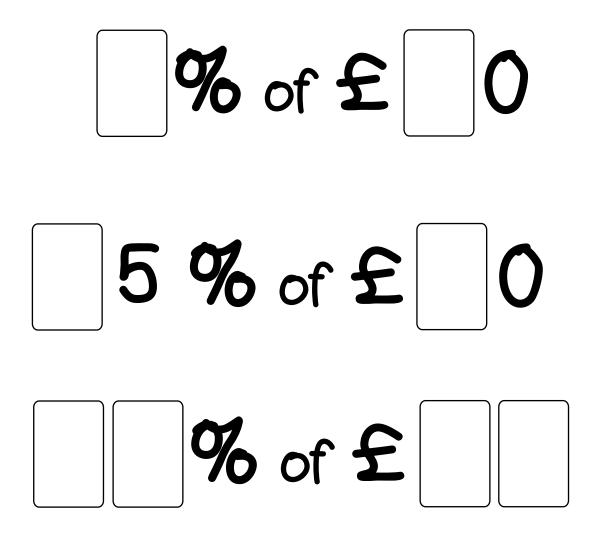
Each player picks EIGHT cards and places them on the Game template to form three percentage statements.

Both players now find the answers to the percentage of each amount.

Each player then finds the total of all three amounts.

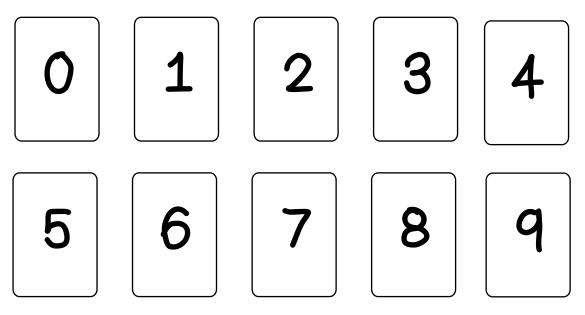
To win:

The player who creates the largest amount of money wins one point. The first player to get 10 points wins the Game.





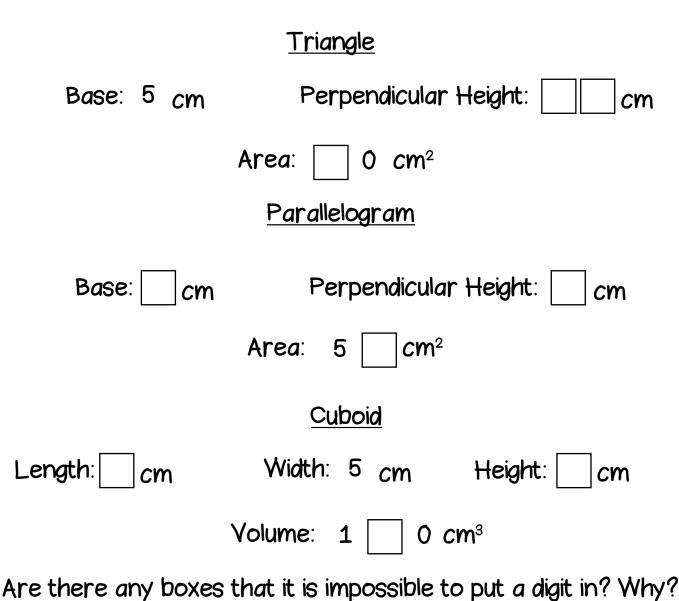
Percentage Cards





Put different digits in the empty boxes so that the area and volume statements are correct.

Complete them in several different ways, where possible



Are there any boxes that could have any of the digits in them?

Now try to complete all statements together using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each.

Which digit did you not use?

	S S
A WAR	C

Algebra Investigation



Colin loves performing Maths Magic.

Here are some of his favourite Maths tricks:

Trick 1

Pick a number Add 3 Double your answer Halve your answer Subtract the original number.

.... Your answer is 3

Trick 2

Pick a number Double your answer Add 8 Halve your answer Subtract the original number.

.....Your answer is 4

Trick 3

Pick a number Add on the next consecutive number Add 9 Halve your answer Subtract the original number.

.....Your answer is 5

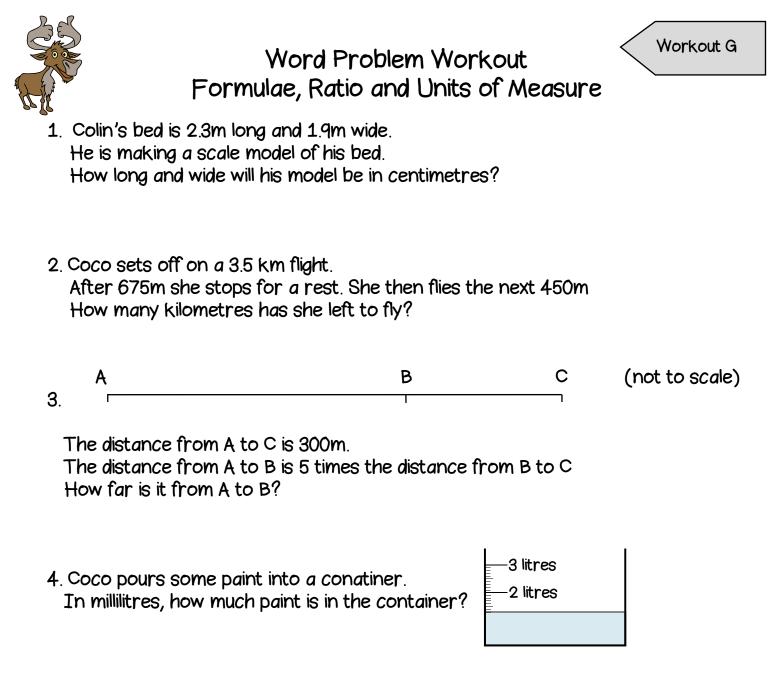
Investigate if the tricks work for any number.

For the tricks that do work for any number, use algebra to prove why.

Create a similar Maths trick that will always give an answer of 6.

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- 5. Colin's Slush machine makes 200ml of Slush every 5 seconds. At this rate, how many litres of Slush would it make in one minute?
- A T shirt printer charges £1.50 per T-shirt printed, plus 75p per colour. How much would it cost to get three T-shirts printed with 4 colours on each one?
- 7. In a recipe there are 4 eggs and 200g of sugar. If Coco uses 6 eggs, how much sugar should she use?

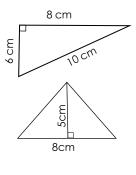
Create your own word problems involving ratios.

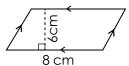


Matching Workout

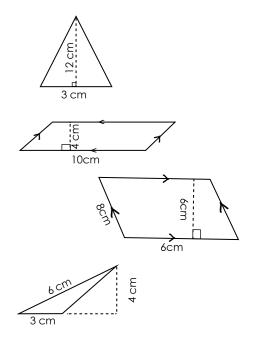


Match the shapes with the correct area. Fill in the missing buddies.





[]
18 cm ²
48 cm^2
40 cm ²
20 cm ²
36 cm ²
6 cm ²



Match the expression with the description. Fill in the missing buddies. Match the percentage with the quantity. Fill in the missing buddies.

n squared	n + 2	15% of 80	24
Double n	2 – n	5% of 120	14
n add 2	n – 2	25% of 60	12
	11 - 2	% of 120	
		35% of 40	6
n divided by 2	2n	99% of 200	15
2 take away n	<u>n</u> 2	9% of 200	18

Create your own Matching Workouts.

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