

Name: _____ Date: _____

Use the table below and the grid cards to help you answer the problem below.
Remember to work systematically as you go.



There are 21 creatures in the 'Jawsome' shark exhibit at the aquarium. There are three times as many sharks as there are rays. The rest are fish. The director thinks there should be four fish in the tank. Is this possible? Prove it!

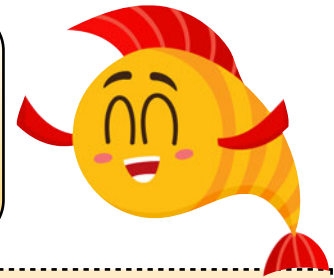
Number of rays	Number of sharks (rays x 3)	Number of fish (rays + sharks + fish = 21)

Is it possible to have four fish in this 'Jawsome' tank? Why/ Why not?

Name: _____

Date: _____

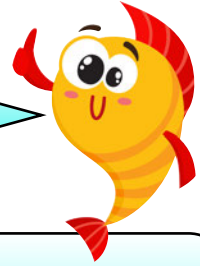
Use colouring pencils and these grids to help you find out how many of each creature is in the shark tank. One has been filled in to show you. What would a tank with two rays look like? How many fish would there be?



	Rays Sharks Fish		Rays Sharks Fish		Rays Sharks Fish
	Rays Sharks Fish		Rays Sharks Fish		Rays Sharks Fish
	Rays Sharks Fish		Rays Sharks Fish		Rays Sharks Fish

Name: _____ Date: _____

Use the table below to help you answer the problem below.
Remember to work systematically as you go.



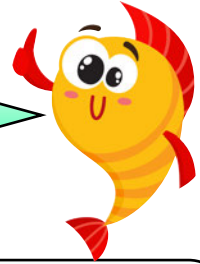
There are 50 creatures in the 'Jawsome' shark exhibit. There are eight times as many sharks as there are rays. The rest are fish. The director thinks there should be 15 fish in the tank. Is this possible? Prove it!

Number of rays	Number of sharks (rays x 8)	Number of fish

Is it possible to have 15 fish in this 'Jawsome' tank? Why/ Why not?

Name: _____ Date: _____

Use the table below to help you answer the problem below.
Remember to work systematically as you go.



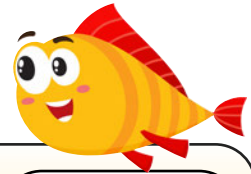
There are 80 creatures in the 'Jawsome' shark exhibit. There are eight times as many sharks as there are rays and four times as many eels as there are rays. The rest are fish. The director thinks there should be 15 fish in the tank. Is this possible?
Prove it!

Number of rays	Number of sharks	Number of eels	Number of fish

Is it possible to have 15 fish in this 'Jawsome' tank? Why/ Why not?

Name: _____ Date: _____

Solve these scaling problems and use the code at the bottom of the page to get the answer to the joke!



1) There are three times as many children at the aquarium than there are adults. If there are 21 children, how many adults are there?

2) Ben uses two buckets of fish to feed ten penguins. If he fed 80 penguins, how many buckets would he need?

3) Tickets cost three times more in the summer holidays than they do normally. Normally, the tickets cost £4 for a child. How much would a child's ticket cost in the summer holidays?

4) Sharks must eat 2kg of fish every day. How much would they eat in one week?

5) Eight staff work in the gift shop. There are three times as many people working in the 'Jawsome' shark exhibit. How many people work in the 'Jawsome' shark exhibit?

6) In the 'Pool of Rock' exhibit, there are four times as many starfish as there are crabs. There are three crabs in the exhibit. How many starfish are there?

7) The filters in each tank can pump eight litres of water every hour. How much water could the filters pump in six hours?



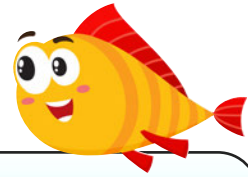
If fish lived on land, which country would they live in?



A	P	C	L	E	S	T	O	I	N	K	F	D
24	5	9	14	10	55	20	17	16	12	36	7	48

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Solve these scaling problems and use the code at the bottom of the page to get the answer to the joke!



1) There are four times as many visitors in the shark tunnel as there are in the gift shop. There are 20 visitors altogether. How many visitors are in the shark tunnel?

2) There are three times as many children at the aquarium than there are adults. If there are 27 children, how many adults are there?

3) Ben uses two buckets of fish to feed 20 penguins. If he fed 200 penguins, how many buckets would he need?

4) Tickets cost four times more in the summer holidays than they do normally. Normally, the tickets cost £4 for a child. How much would a child's ticket cost in the summer holidays?

5) On Monday, there were 20 visitors to the gift shop. The next day there were five times as many visitors. How many visitors were there on Tuesday?

6) Sharks must eat 2kg of fish every day. How much would they eat in two weeks?

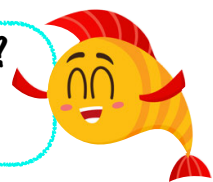
7) Eight staff work in the gift shop. There are six times as many people working in the 'Jawsome' shark exhibit. How many people work in the 'Jawsome' shark exhibit?

8) In the 'Pool of Rock' exhibit, there are eight times as many fish as there are crabs. There are 72 fish in the exhibit. How many crabs are there?

9) The filters in each tank can pump ten litres of water every ten minutes. How much water could the filters pump in an hour?



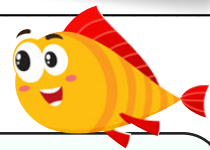
How many tickles does it take to make an octopus laugh?



A	P	C	L	E	S	T	O	I	N	K	Y	M
100	45	28	48	9	60	16	30	5	20	74	42	160

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Solve these scaling problems and use the code at the bottom of the page to get the answer to the joke!



1) There are four times as many visitors in the shark tunnel as there are in the gift shop. There are 40 visitors altogether. How many visitors are in the shark tunnel?

2) There are eight times as many children at the aquarium than there are adults. If there are 48 children, how many adults are there?

3) There are eight times as many staff working in the rock pool exhibit as there are in the gift shop. Harry, Lucy and Toby work in the gift shop. How many staff work in the rock pool exhibit?

4) Jenny feeds the Pacific tank every day. For every 40 fish she needs one box of food. If she uses four boxes of food how many fish has she fed?

5) Ben uses three buckets of fish to feed 20 penguins. If he fed 200 penguins, how many buckets would he need?

6) On Monday, there were 50 visitors to the gift shop. The next day there were five times as many visitors. How many visitors were there on Tuesday?

7) Tickets cost four times more in the summer holidays than they do normally. Normally, the tickets cost £4 for a child. How much would two child tickets cost in the summer holidays?

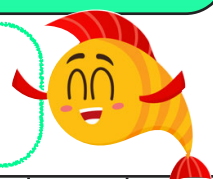
8) A school trip of 36 people arrives at the aquarium. There are five times as many children as there are adults. How many adults are there?

9) Sharks must eat 3kg of fish every day. How much would they eat in two weeks?

10) The filters in each tank can pump four litres of water every minute. How much water could the filters pump in eight minutes?



What do fish play at parties?



A	P	C	L	E	S	G	O	I	N	K	Y	M
6	45	51	24	60	32	120	30	95	250	74	42	160