Steps to Success

Lockdown		
Date	18.01.21	
Subject/s	<u>Maths</u>	
Learning Objective		
Learning Objective	To find percentages of an amount	

		SA (M)	TA
Success Criteria	I know the whole is 100%		
✓! 🗏	I can use my knowledge of factors to divide both sides 100% = 320 50% = 160 I can add together to make the total 100% = 320 10% = 32 1% = 3.2 11% = 35.2		
Support	Independent Adult Support () Group Work	1	1
Pre-Task What is 50% of 250 = What is 10% of 130 = What is 5% of 120 = What is 25% of 120 =	•		

Fluency

C) 1%, 10%, 50% and 100%

50% of 38 =(1)	20% of 100 =(11)	25% of 72 =(21)
50% of 56 =(2)	25% of 16 =(12)	20% of 15 =(22)
50% of 96 =(3)	50% of 50 =(13)	25% of 88 = ₍₂₃₎
25% of 48 =(4)	20% of 40 =(14)	25% of 36 =(24)
50% of 42 =(5)	50% of 84 =(15)	25% of 60 =(25)
50% of 6 =(6)	25% of 68 =(16)	20% of 75 =(26)
50% of 4 =(7)	25% of 28 = ₍₁₇₎	25% of 100 =(27)
20% of 85 =(8)	50% of 98 =(18)	50% of 74 =(28)
50% of 68 =(9)	25% of 92 = ₍₁₉₎	50% of 60 =(29)
20% of 50 =(10)	50% of 58 =(20)	20% of 60 =(30)

Answers

C) 1%, 10%, 50% and 100%

1)	50% of 40 = 20	21	1% of 700 = 7	3)	10% of 140 = 14
± /	30/00170 - 20	~ /	1/0 01 / 00 - /	31	TO 10 01 T-10 - T-1

50% of 38 =(1)	20% of 100 =(11)	25% of 72 =(21)
50% of 56 =(2)	25% of 16 =(12)	20% of 15 =(22)
50% of 96 =(3)	50% of 50 =(13)	25% of 88 =(23)
25% of 48 =(4)	20% of 40 =(14)	25% of 36 =(24)
50% of 42 =(5)	50% of 84 =(15)	25% of 60 =(25)
50% of 6 =(6)	25% of 68 =(16)	20% of 75 =(26)
50% of 4 =(7)	25% of 28 = ₍₁₇₎	25% of 100 =(27)
20% of 85 =(8)	50% of 98 =(18)	50% of 74 =(28)
50% of 68 =(9)	25% of 92 = ₍₁₉₎	50% of 60 =(29)
20% of 50 =(10)	50% of 58 =(20)	20% of 60 =(30)
·		

Problem Solving and Reasoning

Explain it!

Henry says,



To find 10% you divide by 10, so to find 50% you divide by 50



Do you agree? Explain why.

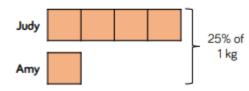
Use it!

Amy and Judy shared 25% of a 1 kg bar of chocolate.



Amy ate a quarter of the amount that Jude ate.

How much did they each eat?



How much less did Amy eat than Judy?

Use it!



50% of 300	5% of 20	25% of 244
10% of 890	1% of 120,000	50% of 9402
25% of 225,000	10% of 85,610	5% of 600

Using the table above,

- a) What's the biggest total you can make using only 3 amounts?
- b) What's the smallest total you can make using 3 amounts?
- c) Can you make exactly 300? How?

Explain it!



Four children in a class were asked to find 20% of an amount, this is what they did:



I divided by 5 because 20% is the same as one fifth.

I found one percent by dividing by 100, then I multiplied my answer by 20





I did 10% add 10%

I found ten percent by dividing by 10, then I multiplied my answer by 2



Who do you think has the most efficient method? Explain why.

Who do you think will end up getting the answer incorrect?

Answers

Henry is wrong because 50% is equivalent to a half so to find it you divide by 2

Judy ate 200 g, Amy ate 50 g

Amy ate 150 g less than Judy

- a) Largest: 146,561
- b) Smallest: 153
- c) 50% of 300 + 1% of 120,000 + 5% of 600 = 300

90% of 300 160	5% of 20	25% of 244 60
10% of 890	7% of 120,000 120	50% of 9402 4701
25% of 225,000 56,250	10% of 85,610 86,610	5% of 600

Children to write which one they think is the most effective answer and explain their reasons.

<u>Further Challenge</u>

1. What is 20% of 30% of 40% of £50? Would you rather?

Would you rather.....

2. Have 10% of £5 or 75% of 80p?

