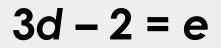
Thursday 11th June Year 5/6: Enumerate Possibilities



Introduction

Stefan thinks he has listed possible answers that would fit this equation. Is he correct?

Value of d	Value of e
2	4
3	6
4.25	10.75
6.75	7.75





Introduction

Stefan thinks he has listed possible answers that would fit this equation. Is he correct?

Value of d	Value of e
2	4
3	6
4.25	10.75
6.75	7.75

3d - 2 = e

No, Stefan is not correct. If d = 3, then e = 7If d = 6.75, then e = 18.25

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True or false? Sinead has worked this out correctly.

a = 15

a + b = 25

c + b = 35

b = 10 c = 11



True or false? Sinead has worked this out correctly.

a = 15

a + b = 25

c + b = 35

b = 10 c = 11

False. c = 25



Use the table to find all the possible combinations for these two variables.

$$\mathbf{x} - \mathbf{y} = 10.5$$

0.5	3	15	4.5
9.5	20	13.5	11



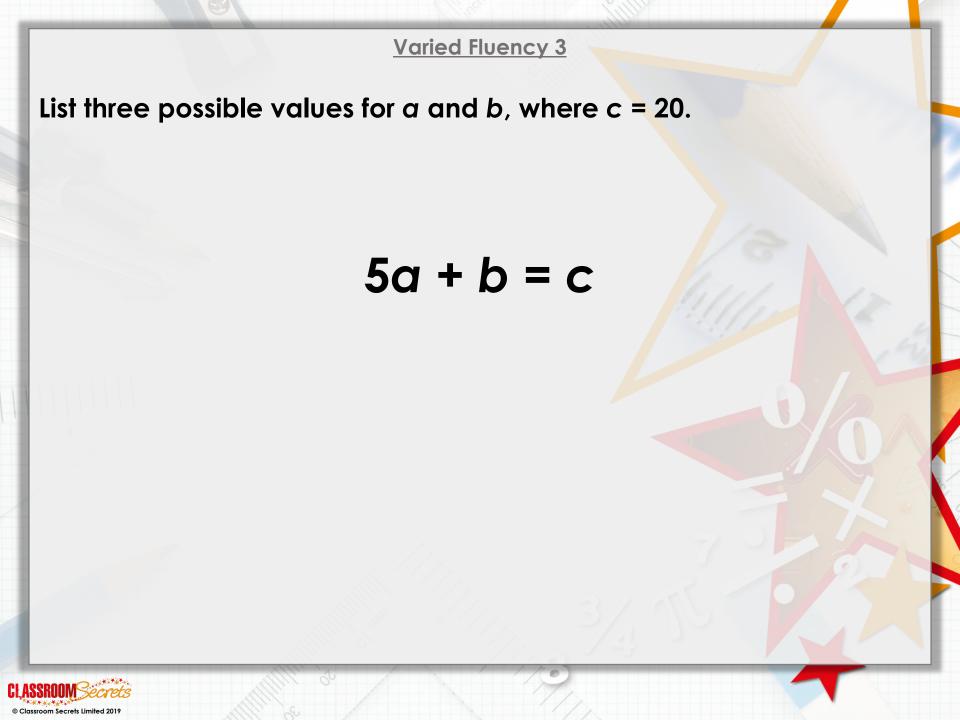
Use the table to find all the possible combinations for these two variables.

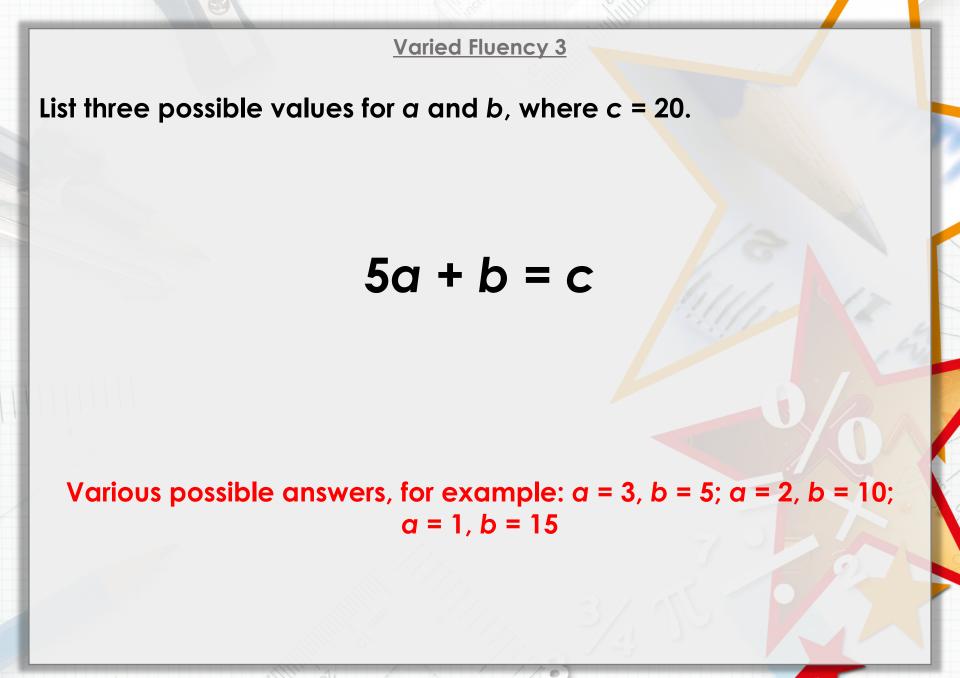
$$\mathbf{x} - \mathbf{y} = 10.5$$

0.5	3	15	4.5
9.5	20	13.5	11

13.5 - 3; 20 - 9.5; 15 - 4.5; 11 - 0.5







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Logan wants to buy some sweets. Some are 12p, some are 10p. He can spend £1.40 exactly. What combinations of sweets could he buy?





Logan wants to buy some sweets. Some are 12p, some are 10p. He can spend £1.40 exactly. What combinations of sweets could he buy?



Various possible answers, for example: 12 x 10 + 10 x 2 = £1.40; 12 x 5 + 10 x 8 = £1.40; 12 x 0 + 10 x 14 = £1.40

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Razia is trying to find all the possibilities for g and f.



$$\int$$
 If g = 9, f must = 33

Is Razia correct? Explain your answer.



Razia is trying to find all the possibilities for g and f.



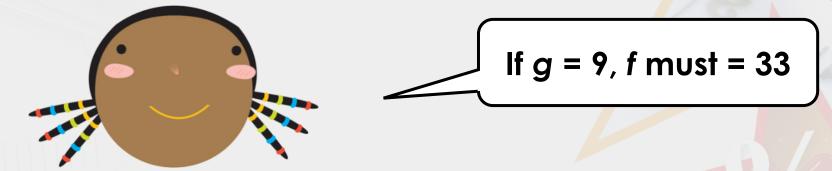
If g = 9, f must = 33

Is Razia correct? Explain your answer. Razia is incorrect because...



Razia is trying to find all the possibilities for g and f.

$$3g + 11f = 60$$



Is Razia correct? Explain your answer. Razia is incorrect because she has forgotten that f needs multiplying by 11.

3 x 9 = 27; 60 - 27 = 33; 33 ÷ 11 = 3; *f* = 3



If a is an odd number and b is 1.5, which of these could be true?

- A. 2a + 3b = 7.5
- B. a + a 4b = 4
- C. 4a + 5b = 27.5
- D. 2a + 3b = 18.5

Convince me.



If a is an odd number and b is 1.5, which of these could be true?

- A. 2a + 3b = 7.5
- B. a + a 4b = 4
- C. 4a + 5b = 27.5
- D. 2a + 3b = 18.5

Convince me. They could all be true because...



If a is an odd number and b is 1.5, which of these could be true?

- A. 2a + 3b = 7.5
- B. a + a 4b = 4
- C. 4a + 5b = 27.5
- D. 2a + 3b = 18.5

Convince me.

They could all be true because: if a = 1.5, then A would be true; if a = 5, then B and C would be true; if a = 7, then D would be true.



Problem Solving 1

Sweety Treaty sell 2 medium sweet boxes and 4 small sweet boxes for £36. What possible prices can you find for each sweet box?

2m + 4s = £36

	16
m	S



Problem Solving 1

Sweety Treaty sell 2 medium sweet boxes and 4 small sweet boxes for £36. What possible prices can you find for each sweet box?

2m + 4s = £36

	1
m	S

Various possible answers, for example: m = 8, s = 5; m = 9, s = 4.5; m = 10, s = 4



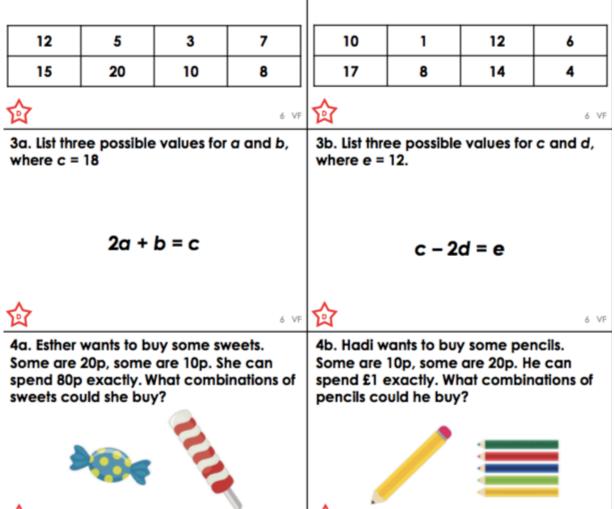
Year 5 and Year 6 Developing

2a. Use the table to find all the possible combinations for these two variables.

2b. Use the table to find all the possible combinations for these two variables.

a –	b	=	5
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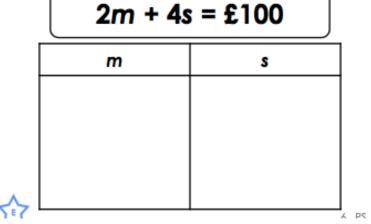
			2b. If a is 5 and b is an even number, which of these could be true?							
	Α.	2a + 2b =	: 14				A.	a + 2b	o = 12	
	В.	a x b = 9	i -			I	В.	2a + k	o = 16	
	с.	2a x b =	12			(C.	2a x b	o = 20	
	D.	a + 2b =	9			I	D.	a + b	= 8	
Conv	ince me.				Conv	vince r	me.			
合				6 R	☆					6 R
3a. Pizza 2 Go sells 2 medium pizzas and one small pizza for £22. What possible prices can you find for each pizza?		base	ball c	aps f	for £80.	itted hats and What possible each hat?				
	2m + s = £22				21	k + 2b	o = £80			
F	m		S				k		Ь	
∽ L			A	P\$	\$					29 3

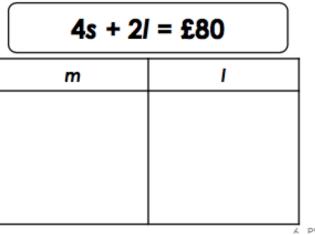
Year <u>6 Expected</u> 6a. Use the table to find all the possible 6b. Use the table to find all the possible combinations for these two variables. combinations for these two variables. x - y = 11.5x + y = 18.513.5 15.5 7.5 2 13.5 14.5 17.5 1 4 17 5 19 5.5 17 1.5 4 6 VF E 6 VF 7a. List three possible values for a and b, 7b. List three possible values for c and d, where c = 19.5where e = 203a + b = c4c - d = e6 VF 6 VF 8a. Deanna wants to buy some cards. 8b. Arlo wants to buy some stamps. Some Some are 15p, some are 20p. She can are 12p, some are 10p. He can spend spend £1.50 exactly. What combinations £1.30 exactly. What combinations of of trading cards could she buy? stamps could he buy? Alienz Alienz FRANCE Nome: Rp Power: +7

5a. If a is an odd number and b is 0.5, which of these could be true?

5b. If a is a decimal number and b is 4, which of these could be true?

A. 2a + 3b = 7.5A. 5a + b = 15Β. a + a - 4b = 3Β. 3a + 3b = 13.5C. 4a + 5b = 22.5C. 2a + 5b = 21D. 3a + 3b = 17.5D. $2a \times b = 12$ Convince me. Convince me. 6 R 6 R 6a. Coats 'r' Us sell 2 medium coats and 4 6b. Yum Wings sell 4 small chicken dippers and 2 large chicken buckets for small coats for £100. What possible prices can you find for each coat? £80. What possible prices can you find for each meal?





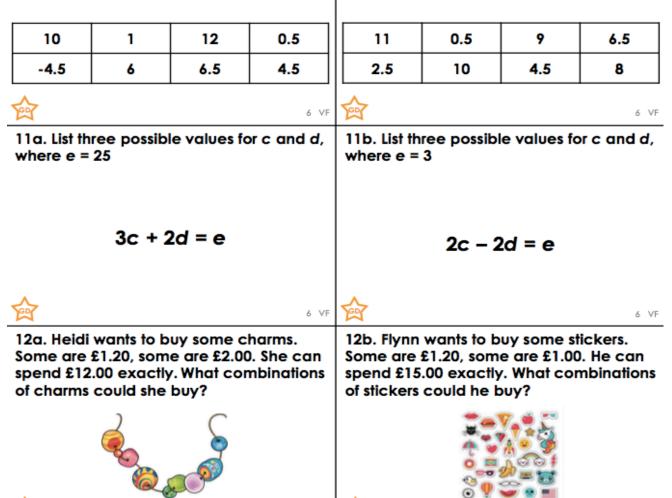
Year 6 Greater Depth

10a. Use the table to find all the possible combinations for these two variables.

10b. Use the table to find all the possible combinations for these two variables.

x – y =	-5.5
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2x + y = 22.5



				8b. If a is -5 and b is a decimal number, which of these could be true?			
	A. $a + b = 0$			Α.	a + b :	= -2.5	
	В.	a + 3b = 16		В.	a + 3b	= -3.5	
	С.	a + 8b = 46		C.	a + 2b	- b = 5.5	
	D.	a + 2b – b = 3		D.	a – b =	= -9.5	
Conv	vince me.		~	vince me.			6 R
9a. CinePlaza sell 2 medium popcorn and 2 small popcorn for £17.50. What possible prices can you find for each popcorn?			d 9b. for £		at possibl	ittens and 5 hats e prices can you	
2m + 2s = £17.50				5 m	+ 5h :	= £22.50	
[m	S		m	1	h]
			~				