Varied Fluency Step 2: Related Calculations

National Curriculum Objectives:

Mathematics Year 3: (3C6) <u>Recall and use multiplication and division facts for the 3, 4 and</u> 8 multiplication tables

Mathematics Year 3: (3C7) <u>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</u>

Differentiation:

Developing Questions to support using known multiplication facts to solve other multiplication problems, using multiples of 2, 3, 4, 5 and 8 times by a multiple of 10. Includes pictorial support for all questions and completed related known fact. Expected Questions to support using known multiplication facts to solve other multiplication problems, using multiples of 2, 3, 4, 5 and 8 times by a multiple of 10. Includes some pictorial support.

Greater Depth Questions to support using known multiplication facts to solve other multiplication problems, using multiples of 2, 3, 4, 5 and 8 times by a multiple of 10 or 100.

More Year 3 Multiplication and Division resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



Related Calculations

Related Calculations

1a. Match the related facts.





В.



2.

1. 5

x 30

1b. Match the related facts.





1. 80 x

2



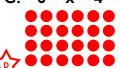
2. 60 x







3. 40 x





2a. Tick the fact that will help you solve 30 x 2.

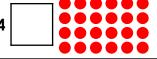


2b. Tick the fact that will help you solve 80 x 3.

$$6 \times 3 = 18$$







3a. True or false?









3b. True or false?







VF

727

VF

If $3 \times 30 = 90$, then 90 divided by 30 = 30.

4a. Complete the fact family.



X

3

120

X

120

120

120

40

30

4b. Complete the fact family.



40

X

X

200

200

200

40

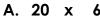


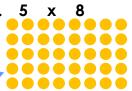
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Related Calculations

Related Calculations

5a. Match the related facts.



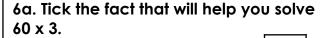












3

X

1. 2

2. 60 x

7

X



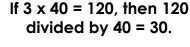


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7a. True or false?

If
$$3 \times 80 = 240$$
, then 240 divided by $8 = 30$.

7b. True or false?





8a. Complete the fact family.

VF

TE?

8b. Complete the fact family.



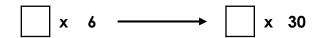
3



Related Calculations

Related Calculations

9a. Complete the calculations so that they are matched related calculations.



9b. Complete the calculations so that they are matched related calculations.



10a. Complete the number sentences for the related facts using the same number in each calculation.

10b. Complete the number sentences for the related facts using the same number in each calculation.

11a. Complete the number sentences to make the statement true.

11b. Complete the number sentences to make the statement true.

12b. Complete the calculations so they

12a. Complete the calculations so they are related facts.

= 24, 3 x

$$\neg |$$

are related facts.

3

$$8 = 32, 320 \div$$

80







<u>Varied Fluency</u> Related Calculations

Varied Fluency Related Calculations

Developing

1a. A3; B2; C1

 $2a. 3 \times 2 = 6$

3a. True

4a.

40	Х	3	II	120
30	Х	4	II	120
120	÷	3	II	40
120	÷	4	=	30

Expected

5a. A3; B1; C2

 $6a. 3 \times 6 = 18$

7a. True

8a. r

80	х	2	II	160
20	х	8	=	160
160	÷	2	=	80
160	÷	8	=	20

<u>Greater Depth</u>

9a. Various answers, for example:

10a. 30

11a. If $\underline{3} \times 60 = 180$ and $6 \times \underline{30} = 180$, then 180 divided by 60 = 3.

Developing

1b. A3; B1; C2

$$2b. 3 \times 8 = 24$$

3b. False, $90 \div 30 = 3$

4b.	40	X	5	=	200
	4	х	50	=	200
	200	÷	5	=	40
	200	÷	4	=	50

Expected

5b. A2; B3; C1

$$6b. 4 \times 7 = 28$$

7b. False, $120 \div 40 = 3$

8b	
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30	Х	5	II	150
50	X	3	II	150
150	÷	3	=	50
150	÷	30	=	5

Greater Depth

9b. Various answers, for example:

10b. 20

11b. Various answers, for example: If 5 x $\underline{20}$ = 100 and $\underline{2}$ x 50 = 100, then $\underline{1,000}$ divided by $\underline{50}$ = 20.