Name & Surname: _____ Class: _____ Date: _____

Fast Fact Families

Multiply and divide within 100

About 35 minutes Level ★★★☆☆

Facts That Stick

Equal **groups** make a product. Flip the factors and division undoes multiplication.

- Multiply **factors**: 8 × 5 = 40.
- Switch the **order**: 5 × 8 = 40.
- Use the **related** fact: 40 ÷ 5 = 8 and 40 ÷ 8 = 5.



Task A

/4

Write each product in the chart by place value.

Number	Tens	Ones
24		
40		
56		
81		

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Practice Makes Fast

Use quick facts and related facts to solve problems.

Key words

factor: a number you multiply

array: rows and columns that show groups

related: facts that use the same numbers

product: the answer to a multiplication

divide: split into equal groups

Task B

/10

Build speed with these facts.

WARM UP

1 Work out 4 × 6 using **groups**.

Answer: _____

2 Work out 8 × 5 using an **array**.

Answer: _____

3 Work out 36 ÷ 4 by **sharing**.

Answer: _____

4 Work out 56 ÷ 7 using **groups**.

Answer: _____

PRACTICE

5 Use 5 × 9 = 45 to find 45 ÷ 9 with **related** facts.

Answer: _____

6 If 7 × 8 = 56, then 8 × 7 = ? Use **order**.

Answer: _____

7 Find the missing **factor**: 6 × ? = 42

Answer: _____

PROBLEM SOLVING

8 A pack holds 5 bags with 7 **crayons** in each bag. How many crayons in all?

Answer: _____

9 40 **stickers** are shared into 5 equal groups. How many in each group?

Answer: _____

10 Explain how you know 9 × 4 = 36 helps 36 ÷ 4 = 9 using **related** facts.

Answer: _____

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Spot the Mistake

Find where the thinking went wrong and fix it.

Task C /4

Find the wrong step in each solution.



Student A

Work out 7 × 8 with **groups**.

1. 7 × 8
2. = 7 + 8
3. = 15
4. So the answer is 15

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Work out 7 × 6 using 5 × 6 = 30 and **groups**.

1. 5 × 6 = 30
2. 7 × 6 = 30 + 2
3. = 32
4. So the answer is 32

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

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Solve It All

Use smart strategies for harder facts and word problems.

Task D

/10

Try these strategies for harder facts.

WARM UP

1 Work out 3 × 7 using **groups**.

Answer: _____

2 Work out 9 × 6 using an **array**.

Answer: _____

3 Work out 72 ÷ 8 by **sharing**.

Answer: _____

4 Work out 63 ÷ 9 using **groups**.

Answer: _____

PRACTICE

5 Find the missing **factor**: 8 × ? = 64

Answer: _____

6 If 2 × 7 = 14, double to find 4 × 7 with **doubling**.

Answer: _____

7 Use 10 × 7 = 70 to find 9 × 7 with **strategy**.

Answer: _____

PROBLEM SOLVING

8 A shelf holds 9 **bags** with 8 marbles in each bag. How many marbles in all?

Answer: _____

9 54 **cookies** are packed into 6 equal boxes. How many in each box?

Answer: _____

10 Explain how you know 6 × 8 = 48 helps you find 48 ÷ 6 with **related** facts.

Answer: _____

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Check Your Facts

Choose the right answer and finish the fact grid.

Task E

Example done for you

/3

Tick the correct fact for each question.

1. Which **division** matches 8 × 5 = 40?
   - [x] 40 ÷ 5 = 8
   - [ ] 30 ÷ 5 = 6
   - [ ] 45 ÷ 5 = 9
2. What is 7 × 6? Use your **facts**.
   - [ ] 42
   - [ ] 36
   - [ ] 48
3. What is 56 ÷ 8? Think **related** facts.
   - [ ] 6
   - [ ] 7
   - [ ] 9
4. Which shows the **commutative** property?
   - [ ] 3 × 4 = 12
   - [ ] 4 × 3 = 3 × 4
   - [ ] 12 ÷ 3 = 4

Task F

/12

Fill the grid using your facts.

×	5	7	8	9
3				
4	20			
6		42		
7	35			63

How did I do?

Circle a face for each line.

I can recall products of two one-digit numbers. ☹ 😐 ☺

I can use a multiplication fact to find a division fact. ☹ 😐 ☺

I can explain which strategy I used. ☹ 😐 ☺

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Answer sheet: Fast Fact Families

Task A

1. 24: 2 | 4
2. 40: 4 | 0
3. 56: 5 | 6
4. 81: 8 | 1

Task B

1. 24
2. 40
3. 9
4. 8
5. 5
6. 56
7. 7
8. 35
9. 8
10. Because 9 groups of 4 make 36, so 36 split into 4 equal groups gives 9.

Task C

1. Step 2 is wrong: They added the factors instead of making 7 equal groups of 8. Correct answer: 56
2. Step 2 is wrong: They added only 2. They need two more groups of 6, so add 12. Correct answer: 42

Task D

1. 21
2. 54
3. 9
4. 7
5. 8
6. 28
7. 63
8. 72
9. 9
10. Because 6 groups of 8 make 48, so 48 split into 6 equal groups gives 8.

Task E

1. a) $40 \div 5 = 8$
2. a) 42
3. b) 7
4. b) $4 \times 3 = 3 \times 4$

Task F

3 × 5, 7, 8, 9: 15, 21, 24, 27
4 × 5, 7, 8, 9: 20, 28, 32, 36
6 × 5, 7, 8, 9: 30, 42, 48, 54
7 × 5, 7, 8, 9: 35, 49, 56, 63

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