Homework/Extension
Step 8: Multiply by 8

National Curriculum Objectives:

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

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match the calculations to the correct answers. Calculations up to 12 x 8 using pictorial support where each digit is represented.
Expected Match the calculations to the correct answers using knowledge of multiplying by 8. Calculations up to 12 x 8 using scaffolding or pictorial support.
Greater Depth Match the calculations to the correct answers. Calculations up to 12 x 8 with no scaffolding provided.

Questions 2, 5 and 8 (Varied Fluency)
Developing Decide whether a statement is true or false using knowledge of multiplying by 8 and known times tables facts. Using pictorial support where each digit is represented.
Expected Decide whether a statement is true or false using knowledge of multiplying by 8 and known times tables facts. Calculations up to 12 x 8 using scaffolding or pictorial support.
Greater Depth Decide whether a statement is true or false using knowledge of multiplying by 8 and known times tables facts. Calculations up to 12 x 8 with no scaffolding provided.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Explain the solution to a word problem using knowledge of multiplying by 8. Calculations up to 12 x 8 using pictorial support where each digit is represented.
Expected Explain the solution to a word problem using knowledge of multiplying by 8. Calculations up to 12 x 8 using scaffolding or pictorial support.
Greater Depth Explain the solution to a word problem using knowledge of multiplying by 8. Calculations up to 12 x 8 with no scaffolding provided.

More Year 3 Multiplication and Division resources.

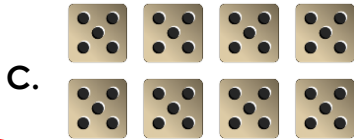Did you like this resource? Don't forget to review it on our website.

Multiply by 8

1. Match the calculations below to the correct answer.

A.

B.

C.

1. **24**

2. **32**
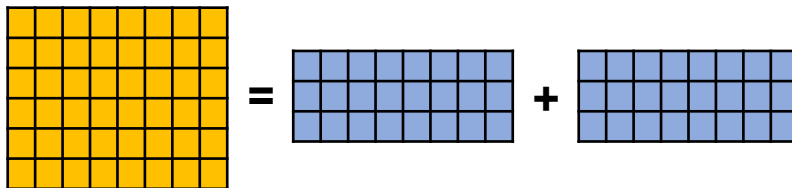
3. **40**

D

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2. Tim is thinking about different ways to multiply by 8.

> I can find the answer to 6 x 8 by calculating 8 x 3 and 8 x 3 and then adding the answers together.

=   +

Is Tim correct?

D

VF
HW/Ext

3. Harriet has 12 packets of pencils. Each packet contains 8 pencils.

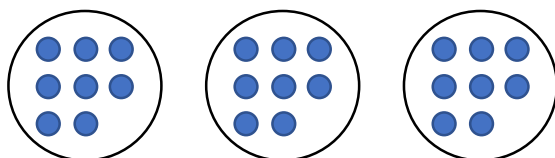**How many pencils does she have altogether? Explain how you know.**

D

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Multiply by 8

4. Match the calculations below to the correct answer.

A. (three circles each with 9 dots)

B. (array of red squares, 6 columns by 6 rows)
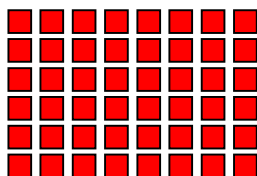
C. | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

1. 72

2. 24

3. 48

★ E

VF
HW/Ext

5. Isaac is thinking about different ways to multiply by 8.

> I can find the answer to 8 x 4 by calculating 4 x 2 and 4 x 2 and then adding the answers together.
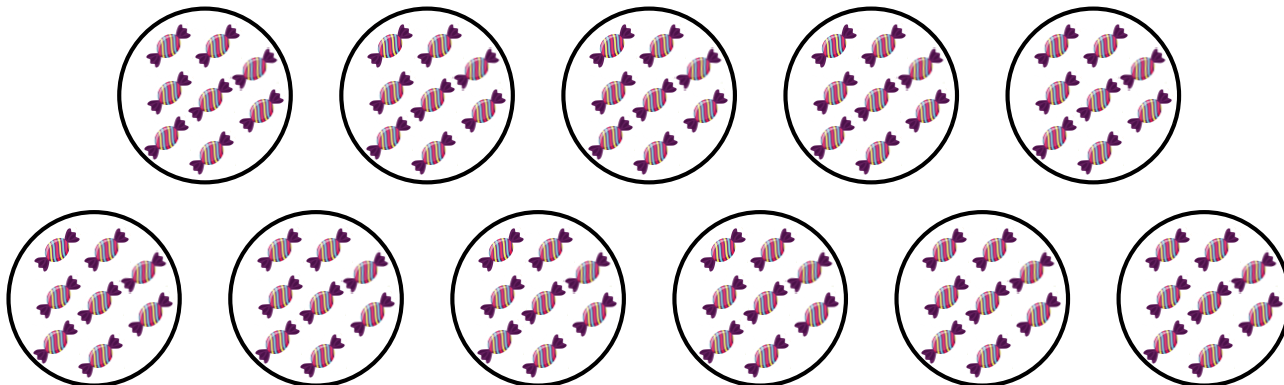
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **=** | 4 | 4 | **+** | 4 | 4 |

Is Isaac correct?

★ E

VF
HW/Ext

6. Keely has 11 packets of sweets. Each packet contains 8 sweets.

(11 circles of sweets shown)

How many more packets will she need to make 96 sweets? Explain how you know.

★ E

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Multiply by 8

7. Match the calculations below to the correct answer.

A. 2 x 8 and 7 x 8

1. 96

B. 10 x 8 and 5 x 8

2. 120

C. 3 x 8 and 9 x 8

3. 72

8. Melanie is thinking about different ways to multiply by 8.

> I can find the answer to 12 x 8 by calculating 12 x 2 x 2 x 2.

Is Melanie correct?

9. Jensen buys 6 bunches of 8 bananas. He also buys 8 packets of 8 apples.

How many more bunches and packets will he need to buy so that he has 88 bananas and 88 apples? Explain how you know.

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Homework/Extension – Multiply by 8 – Year 3 Greater Depth

Homework/Extension
Multiply by 8

Developing
1. **A – 2, B – 1, C – 3**
2. **Tim is correct.**
3. **Harriet has 96 pencils because 12 x 8 = 96.**

Expected
4. **A – 2, B – 3, C – 1**
5. **Isaac is incorrect; 8 x 4 = 32 but 4 x 2 + 4 x 2 = 16.**
6. **Keely will need 1 more pack of sweets because 8 x 11 = 88 and 88 + 8 = 96.**

Greater Depth
7. **A – 3, B – 2, C – 1**
8. **Melanie is correct.**
9. **Jensen needs 5 bunches of bananas and 3 more packets of apples because 48 + 40 = 88 and 64 + 24 = 88.**