# Homework/Extension
# Step 9: Divide by 8

## National Curriculum Objectives:

**Mathematics Year 3: (3C6) Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables**
**Mathematics Year 3: (3C7) 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**

## Differentiation:

**Questions 1, 4 and 7 (Varied Fluency)**
**Developing Match inverse operations using knowledge of dividing by 8. Up to 12 x 8 with pictorial support for each question where each digit is represented.**
**Expected Match inverse operations using knowledge of dividing by 8. Up to 12 x 8 with scaffolding or pictorial support.**
**Greater Depth Match inverse operations using knowledge of dividing by 8. Up to 12 x 8 with no scaffolding support provided.**

**Questions 2, 5 and 8 (Varied Fluency)**
**Developing Identify the correct representation using knowledge of dividing by 8. Up to 12 x 8 with pictorial support for each question where each digit is represented.**
**Expected Identify the correct representation using knowledge of dividing by 8. Up to 12 x 8 with scaffolding or pictorial support.**
**Greater Depth Identify the correct representation using knowledge of dividing by 8. Up to 12 x 8 with no scaffolding support provided.**

**Questions 3, 6 and 9 (Reasoning and Problem Solving)**
**Developing Identify and explain whether an answer is correct using knowledge of dividing by 8. Up to 12 x 8 with pictorial support for each question where each digit is represented.**
**Expected Identify and explain whether an answer is correct using knowledge of dividing by 8. Up to 12 x 8 with scaffolding or pictorial support.**
**Greater Depth Identify and explain whether an answer is correct using knowledge of dividing by 8. Up to 12 x 8 with no scaffolding support provided.**

**More Year 3 Multiplication and Division resources.**

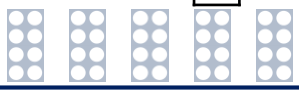
**Did you like this resource? Don't forget to review it on our website.**

# Divide by 8

## 1. Match the calculations below to their inverse.

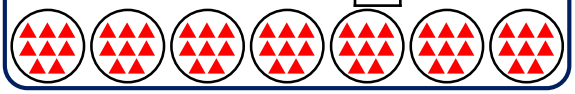
1. 3 x 8 = □

2. 5 x 8 = □

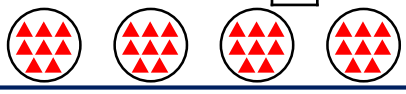


3. 7 x 8 = □

A. 56 ÷ 8 = □



B. 24 ÷ 8 = □



C. 40 ÷ 8 = □

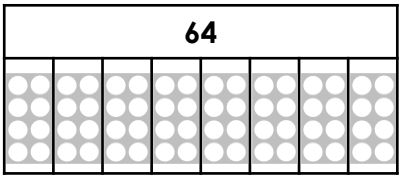
D

VF
HW/Ext

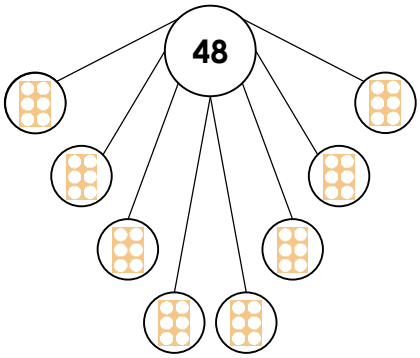
## 2. Tick the representation which shows the calculation below.

64 ÷ 8 = □

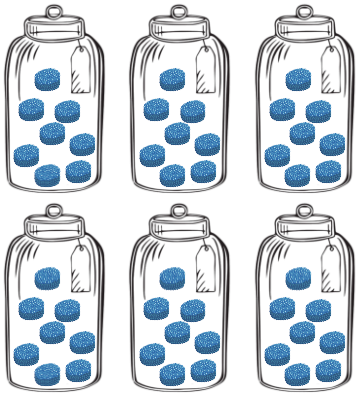
A.




B.




C.



D

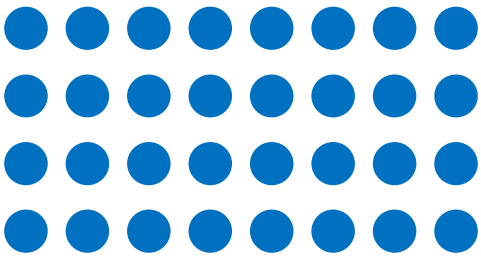
VF
HW/Ext

## 3. Karl is working out the answer to this calculation.

32 ÷ 8

Karl says,

The answer to the calculation is 4.



Is Karl correct?
Convince me.

D

RPS
HW/Ext

# Divide by 8

**4. Match the calculations below to their inverse.**

1. 7 x 8 = ☐

2. 4 x 8 = ☐

3. 9 x 8 = ☐

A. 32 ÷ 8 = ☐

B. 72 ÷ 8 = ☐

C. 56 ÷ 8 = ☐

E

VF
HW/Ext

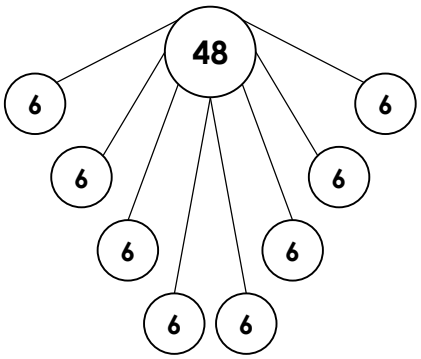
**5. Tick the representation which shows the calculation below.**

48 ÷ 8 = ☐

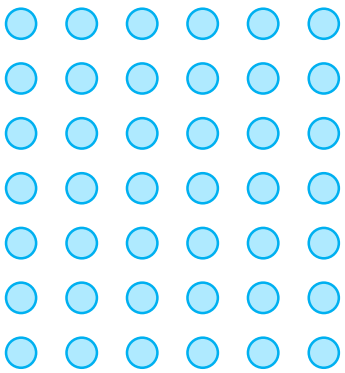
A.

| 56 | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |

B.




C.



E

VF
HW/Ext

**6. Emily is working out the answer to this calculation.**

64 ÷ 8

Emily says,

The answer to the calculation is 7.

Is Emily correct?
Convince me.

E

RPS
HW/Ext

# Divide by 8

**7. Match the calculations below to their inverse.**

| | |
|---|---|
| 1. eleven lots of 8 = ☐ | A. 88 ÷ 8 = ☐ |
| 2. six x eight = ☐ | B. 64 ÷ 8 = ☐ |
| 3. eight times eight = ☐ | C. 48 ÷ 8 = ☐ |

GD

VF
HW/Ext

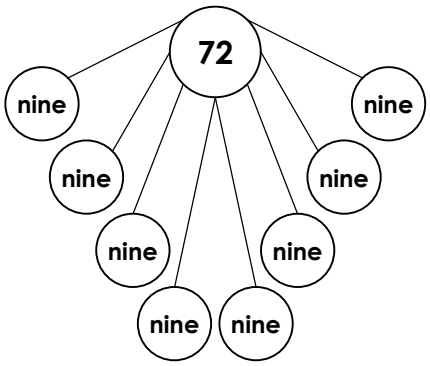
**8. Tick the representation which shows the calculation below.**

72 ÷ 8 = ☐

A.

| 48 | | | | | | | |
|---|---|---|---|---|---|---|---|
| six | six | six | six | six | six | six | six |

B.




C.

8 x 8

GD

VF
HW/Ext

**9. Franco is working out the answer to this calculation.**

96 ÷ 8

Franco says,

To work out the answer, I can divide by 2 four times because four lots of 2 is eight.

Is Franco correct?
Convince me.

GD

RPS
HW/Ext

# Homework/Extension
# Divide by 8

## Developing

1. 1. B; 2. C; 3. A
2. A
3. Karl is correct because 32 ÷ 8 is 4 or 4 x 8 = 32.

## Expected

4. 1. C; 2. A; 3. B
5. B
6. Emily is incorrect because 64 ÷ 8 is 8, not 7. She needs one more group of 8.

## Greater Depth

7. 1. A; 2. C; 3. B
8. B
9. Franco is incorrect because if you divide 96 by 2 four times you get 6 (96 ÷ 2 = 48, 48 ÷ 2 = 24, 24 ÷ 2 = 12, 12 ÷ 2 = 6) but 96 divided by 8 is 12. He needed to divide by 2 three times as 2 x 2 = 4, 4 x 2 = 8. This is three lots of 2, not 4.