# Worksheet - 3, 4 and 8 times tables

Year: Year 3 · 20

Show your working.

## Question 1

**Question 1 – Recite the tables** *(Section A · Practice)*

Write the answers in order.

a. 3, 6, 9, __ , 15, __ , 21
b. 4, 8, __ , 16, __ , 24, 28
c. 8, 16, __ , 32, __ , 48
d. Count back in 8s from 64.

## Question 2

**Question 2 – Multiplication facts** *(Section A · Practice)*

Work out each multiplication.

a. 3 × 7
b. 4 × 9
c. 8 × 6
d. 3 × 12
e. 4 × 8
f. 8 × 9
g. 8 × 7
h. 3 × 8

## Question 3

**Question 3 – Division facts** *(Section A · Practice)*

Work out each division. Use the inverse multiplication to check.

a. 21 ÷ 3
b. 32 ÷ 4
c. 56 ÷ 8
d. 36 ÷ 4
e. 72 ÷ 8
f. 27 ÷ 3

## Question 4

**Question 4 – Doubling links** *(Section A · Practice)*

Use doubling to find each answer.

a. Double 6, then double again. What is 4 × 6?
b. 4 × 9 = 36. What is 8 × 9?
c. 3 × 5 = 15. What is 6 × 5?
d. 4 × 7 = 28. What is 8 × 7?

## Question 5

**Question 5 – Missing numbers** *(Section A · Practice)*

Find each missing number.

a. __ × 4 = 28
b. 8 × __ = 64
c. 3 × __ = 33
d. __ ÷ 4 = 9
e. 48 ÷ __ = 6

## Question 6

**Question 6 – Fact families** *(Section A · Practice)*

Write the three other facts in each fact family.

a. 3 × 7 = 21
b. 4 × 8 = 32
c. 8 × 5 = 40

## Question 7

**Question 7 – The school cake sale** *(Section B · Real-life practice)*

Year 3 sell cakes at a school sale. Cupcakes are sold in boxes of 4. Brownies are sold in bags of 3. Cookies are sold in packs of 8.

a. Aisha buys 6 boxes of cupcakes. How many cupcakes is that?
b. Ben buys 7 bags of brownies. How many brownies?
c. Cara buys 5 packs of cookies. How many cookies?
d. Altogether, how many cakes, brownies and cookies do they buy?

## Question 8

**Question 8 – The football stickers** *(Section B · Real-life practice)*

Stickers are sold in packets of 8. Ravi buys 9 packets for his collection. His sister buys 4 packets.

a. How many stickers does Ravi buy?

b. How many stickers does his sister buy?
c. How many more does Ravi buy than his sister?
d. Ravi shares his stickers equally between himself and 3 friends. How many does each person get?

## Question 9

**Question 9 – Spiders and insects in the garden** *(Section B · Real-life practice)*

Year 3 look for insects. Each spider has 8 legs and each beetle has 6 legs. They find 4 spiders and 3 beetles under the stones. Later they find 8 ladybirds, and every ladybird has 6 legs.

a. How many legs do the 4 spiders have altogether?
b. How many legs do the 3 beetles have?
c. How many legs altogether on the spiders and beetles?
d. There are also 8 ladybirds with 6 legs each. How many legs do the ladybirds have?

## Question 10

**Question 10 – At the zoo shop** *(Section B · Real-life practice)*

The zoo shop sells pencils for £3 each, rubbers for £4 each and rulers for £8 each. Dev spends his pocket money.

| Item | Price |
|---|---|
| Pencil | £3 |
| Rubber | £4 |
| Ruler | £8 |

a. He buys 5 pencils. How much is that?
b. He buys 3 rubbers. How much is that?
c. He buys 2 rulers. How much is that?
d. How much does he spend altogether? He has £50. How much is left?

## Question 11

**Question 11 – Cinema trip** *(Section B · Real-life practice)*

Four friends go to the cinema. A ticket costs £8 and a box of popcorn costs £4.

a. How much do 4 tickets cost?
b. How much do 4 boxes of popcorn cost?
c. What is the total cost?
d. They share the cost equally. How much does each friend pay?

## Question 12

**Question 12 – The marching band** *(Section B · Real-life practice)*

A school marching band stands in rows. Every row has 8 children and there are 6 rows.

a. How many children are in the band?
b. The conductor makes rows of 4. How many rows are there?
c. The band splits into 3 equal teams. How many children are in each team?
d. Is it possible to make rows of 5 with no one left over? Explain.

## Question 13

**Question 13 – Fruit in the market** *(Section B · Real-life practice)*

A fruit stall sells apples in trays of 8, oranges in bags of 4 and bananas in bunches of 3.

a. How many apples are in 7 trays?
b. How many oranges are in 9 bags?
c. How many bananas are in 12 bunches?
d. The stall has 56 apples. They are packed in bags of 4. How many bags?

## Question 14

**Question 14 – The swimming lessons** *(Section B · Real-life practice)*

A swimming teacher puts 32 children into groups. Each lane can hold 4 children.

a. How many lanes does she use?
b. The pool has 8 lanes. Can she use all of them?
c. She puts 3 children in a lane instead. How many lanes does she need? Can she do it with no one left over?
d. A different class has 24 children in groups of 8. How many groups?

## Question 15

**Question 15 – Problem: the party snacks** *(Section C · Problem solving)*

Priya is organising a party for 8 friends. Each friend gets 3 sandwiches, 4 biscuits and 2 apple slices.

a. How many sandwiches does she need?
b. How many biscuits does she need?
c. Biscuits come in packs of 8. How many packs does she need?
d. Sandwiches are made from 3 slices of bread each. How many slices of bread are needed? A loaf has 24 slices. How many loaves?

## Question 16

**Question 16 – Problem: the school trip** *(Section C · Problem solving)*

Year 3 go on a school trip to the aquarium. There are 96 children. Each minibus holds 8 children and each coach holds 48 children.

a. How many minibuses are needed for all the children?
b. How many coaches are needed?
c. One minibus costs £40 and one coach costs £100. Which is cheaper for the whole trip?
d. How much cheaper?

## Question 17

**Question 17 – Problem: the garden centre** *(Section C · Problem solving)*

A garden centre sells flower seeds in packets. Pansy seeds come in packets of 3, tulip bulbs in bags of 4 and daffodil bulbs in bags of 8. The table shows how many Mrs Khan buys.

| Item | Packs |
|---|---|
| Pansy seeds (3) | 6 |
| Tulip bulbs (4) | 5 |
| Daffodil bulbs (8) | 4 |

a. How many pansy seeds does she buy?
b. How many tulip bulbs?
c. How many daffodil bulbs?
d. She plants the bulbs in rows of 4. How many rows can she make with the tulip and daffodil bulbs together?

## Question 18

**Question 18 – Problem: spot the mistakes** *(Section C · Problem solving)*

Tom does his times tables homework. Check each answer and correct the wrong ones.

a. $8 \times 6 = 54$
b. $4 \times 7 = 28$
c. $3 \times 9 = 24$
d. $64 \div 8 = 8$

## Question 19

**Question 19 – Problem: scaling** *(Section C · Problem solving)*

A recipe for 4 people uses 3 eggs and 8 spoons of flour. Ali wants to make the recipe

for 8 people and for 12 people.

| People | Eggs | Flour (spoons) |
|---|---|---|
| 4 | 3 | 8 |
| 8 | ? | ? |
| 12 | ? | ? |

a. How many eggs does he need for 8 people?
b. How many spoons of flour for 8 people?
c. How many eggs for 12 people?
d. How many spoons of flour for 12 people?

## Question 20

**Question 20 – Challenge: the secret numbers** *(Section D · Challenge)*

Sam thinks of a number. He multiplies it by 4 and then adds 8. The answer is 40.

a. What was Sam’s number? Show how you work backwards.
b. Zoe thinks of a number. She multiplies it by 8 and subtracts 6. The answer is 58. What was her number?
c. Which number in the 3, 4 and 8 times tables is the first (after 0) to be in all three tables? Explain.