## Multiplying by 3

1. Complete this arc by multiplying each number by 3 .

2. Complete these multiplication sentences.
(a) $3 \times 3=$ $\qquad$ (b) $8 \times 3=$ $\qquad$
(c) $6 \times 3=$
$\qquad$ (d) $10 \times 3=$
(e) $9 \times 3=$
(1) $4 \times 3=$
(g) $5 \times 3=$
(h) $11 \times 3=$
$\qquad$
3. Write a multiplication sentence for each of these.
(a) five threes: $\qquad$ $\times 3=$ $\qquad$ -
(b) four threes: $\qquad$ $\times$ $\qquad$ $=$ $\qquad$
(c) two threes: $\qquad$ $\times$ $\qquad$ $=$ $\qquad$ (d) ten threes: $\qquad$ $\times$ $\qquad$ $=$ $\qquad$
(e) seven threes $\qquad$ $\times$ $\qquad$ = $\qquad$ (f) eleven threes: $\qquad$ $\times$ $=$
4. Complete these to make multiple of 3 patterns.
(a) 3 , $\qquad$ q.
(b) 9 , $\qquad$ 15.
(c) 6 , $\qquad$ 12, $\qquad$ 18.
(d) 15 $\qquad$ , 21.
(g) 24 , $\qquad$ 30.
(e) 27 , $\qquad$ 33.

$$
x
$$

(g) $24,-30$
(h) 18 , $\qquad$ , 24.
(f) 12 , $\qquad$ , 18,
$\qquad$ -
5. How many stars are there altogether on the 8 flags?
Addition sentence: $\qquad$
 $+3+3+3+3+3=$ $\qquad$

Multiplication sentence: $\qquad$ $\times 3=$ $\qquad$
6. Each cinema ticket costs $€ 3$. What is the cost of:
(a) 3 tickets? $\qquad$ (b) 5 tickets?
(c) 4 tickets? $\qquad$
(d) 9 tickets? $\qquad$ (e) 10 tickets? $\qquad$ (f) 12 tickets? $\qquad$


Maths Fact King Louis XIV of France took only 3 baths in his lifetime, if you have 3 baths a month, how many would you have in a year?

## Multiplying by 6

1. These are 6 -string guitars.
(a) How many strings are there altogether?
$\qquad$ $\times 6=$ $\qquad$ strings
(b) How many strings ore there on:
(i) 2 guitors? $\qquad$ (ii) 4 guitors? $\qquad$
(iii) 7 guitors? $\qquad$
(iv) 9 guitars? $\qquad$ (v) 5 guitors?
(vi) 10 guitars? $\qquad$

2. Complete these.
(a) 8 groups of $6=$ $\qquad$ (b) 9 groups of $6=$
(c) 5 groups of $6=$
(d) 7 groups of $6=$
(e) 10 groups of $6=$ $\qquad$ (f) 12 groups of $6=$ $\qquad$
3. Complete these multiplication sentences.
(a) $3 \times 6=$ $\qquad$ ! (b) $7 \times 6=$ $\qquad$ $=60 \quad(\mathrm{c}) 0 \times 6=$ $\qquad$ (d) $4 \times$ $\qquad$ $=24$
(e) $8 \times$ $\qquad$ $=48$ (f) $10 \times$ $\qquad$ $=60 \quad \vdots(\mathrm{~g}$ $\qquad$ $\times 6=30$ (h) $\qquad$ $\times 6=54$
4. A ladybird has 6 legs. How many legs have:
(a) 6 ladybirds? $\qquad$ (b) 3 lodybirds? $\qquad$ (c) 11 ladybirds? $\qquad$
(d) 2 lodybirds? $\qquad$ (e) 9 ladybirds? $\qquad$ (f) 4 ladybirds? $\qquad$
5. A hexagon has 6 sides. How many sides have:
(a) 1 hexagon? $\qquad$
(b) 4 hexagons?
$\qquad$ (c) 8 hexagons? $\qquad$
(d) 5 hexagons?
(e) 10 hexagons? $\qquad$ (f) 9 hexagons? $\qquad$
(g) 3 hexagons?
(h) 7 hexagons? $\qquad$ (i) 11 hexagons? $\qquad$
6. A touchdown in American football is worth 6 points. Complete this table for 5 games of the Seattle Sixers. Write the total points for each game.

| Seattle Sixers | Game 1 | Game 2 | Game 3 | Game 4 | Game 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Touchdowns scored | 2 | 5 | 3 | 7 | 6 |
| $\times 6$ points |  |  |  |  |  |

Maths Fact It takes a sloth 6 doys to digest a meal. How long would it take a sloth to digest 8 meals? doys


## Multiplying by 9

1. 



There are 9 rungs on this ladder. How many rungs are there on:
(a) 5 lodders?
$5 \times$ $\qquad$ $=$ $\qquad$ (b) 3 ladders? $\qquad$ $\times$ $\qquad$ $=$
(c) 8 lodders? $\qquad$ $\times$ $\qquad$ $=$ $\qquad$ (d) 6 ladders? $\times$ $\qquad$ $=$ $\qquad$
(e) 9 lodders? $\qquad$ $\times$ $\qquad$ $=$
(f) 4 ladders? $\qquad$ $\times \quad=$ $\qquad$
2. There are 9 levels to complete in each video game. How many levels are there to complete in:
(a) 7 games? $\qquad$ (b) 12 gomes? $\qquad$ (c) 4 games? $\qquad$
(d) 9 games? $\qquad$ (e) 2 games? $\qquad$ (f) 6 games? $\qquad$

3. It is said that a cat has 9 lives. How many lives would the following have?

(a) 3 cats: $\qquad$ (b) 9 cats: $\qquad$ (c) 5 cots: $\qquad$ !(d) 10 cats: $\qquad$
(e) 2 cats $\qquad$ (f) 6 cats: (g) 4 cots: $\qquad$ (h) 8 cats. $\qquad$
4. Each large pot will serve 9 bowls of soup. Complete.
(a) 18 bowls = $\qquad$ $\times 9$
(c) 54 bowls $=$ $\qquad$ $\times 9$
(e) 36 bowls = $\qquad$ $\times 9$
(g) 108 bowls $=$ $\qquad$ $\times 9$
(b) $\qquad$
$\qquad$
$\qquad$
(h) $\times 9=27$ bowls $\times 9=90$ bowls $\times 9=63$ bowls $\times 9=81$ bowls

5. Complete this multiplication grid. Write the multiplication sentences below.

| $x$ | 0 | 3 | 4 | 2 | 6 | 5 | 12 | 11 | 1 | 7 | 9 | 10 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 0 |  |  | 18 |  |  |  |  |  |  |  |  |  |

Write all the multiplication sentences with answers $>25$ and $<80$.
(a) $\qquad$ $\times$ $\qquad$ $=$ $\qquad$ (b) $\qquad$ $\times$ $\qquad$ $=$ $\qquad$
(c)
$\qquad$ $\times$ $\qquad$ $=$ $\qquad$
(d) $\times$ $=$ -
(e)
$\qquad$ $\times=$ $=$ (f) $\qquad$ $\times$ $=$ $\qquad$
6. Multiply both ways.

| (a) $2 \times 9=$ | so $9 \times \quad=18$ |
| :--- | :--- |
| (b) $11 \times 9=\quad$ so $9 \times \quad=99$ |  |
| (c) $7 \times 9=\quad$ | $509 \times \quad$ (d) $12 \times 9=\quad$ so $9 \times \quad=$ |

Maths Fact A blue whale's heart beats just 9 times in a minute. How many times does it beat in 12 minutes? times

## Chapter 14: Multiplication 2 - By 3, 6 and 9

1. A triceratop has 3 horns. How many horns would you find on:
(a) 3 triceratops?
(b) 5 triceratops? $\qquad$ (c) 10 triceratops? $\qquad$
(d) 4 tricerotops?
(e) 7 triceratops? $\qquad$ (f) 9 tricerotops? $\qquad$
2. Count up in 3 s .

3. Fill in each missing number.
(a) $5 \times 3=$
(b) $8 \times 3=$
(c) $\quad \times 3=6$
(d) $3 \times 3=$
(e) $\qquad$ $\times 3=12$
(f) $9 \times 3=$
(g) $\times 3=30$
(h) $11 \times 3=$
4. How many wheels are there on: 5 rurrr
(a) 4 buses? $\qquad$ (b) 7 buses? $\qquad$ (c) 5 buses? $\qquad$ (d) 3 buses? $\qquad$
(e) 8 buses?
(f) 6 buses?
(g) 10 buses?
(h) 9 buses?
5. Count up in $6 s$.
(a) 6,12 , $\qquad$
(b)
48,
$\qquad$
(c) $\qquad$ 54, $\qquad$ (d) $\qquad$ 30, $\qquad$
6. A ladybird has 6 legs. How many legs have:
(a) 7 lodybirds? $\qquad$ (b) 4 ladybirds? $\qquad$ (c) 3 lodybirds?
(d) 9 ladybirds?
(e) 10 lodybirds? $\qquad$ (f) 5 ladybirds?

(g) 8 ladybirds? $\qquad$ (h) 11 ladybirds? $\qquad$ (1) 12 ladybirds?
7. Fill in the missing numbers.
(a) $8 \times 6=$ $\qquad$ (b) $\qquad$ $\times 6=30=(c)$ $\qquad$ $\times 6=36$
(d) $11 \times 6=$
(e) $\times 6=72$
(f) $9 \times 6=$
(g) $10 \times 6=$
(h)
h) $\times 6=42$
8. 

A butcher's shop is open from 9 o'clock to 5 o'clock from Monday to Saturday. How many hours is it open for per week in total? $\qquad$
9. There are 5 boys' teams and 7 girls' teams in a six-a-side soccer blitz. How many children in total are taking part?


## Multiplication 2 - By 3, 6 and 9

1. A sow has 9 piglets in each of her litters. How many piglets in:

(a) 3 litters?
(b) 5 litters? $\qquad$ (c) 7 litters? $\qquad$
(d) 4 litters?
(e) 8 litters?
(f) 6 litters?
(i) 9 litters? $\qquad$
2. Count up in 9 s .

Q, $\qquad$ . $\qquad$
$\qquad$ $\xrightarrow{\longrightarrow}$ $\qquad$ . , —— $\qquad$ $-$ $\qquad$ 108.
3. Complete the multiplication grid.

| Number | 5 | 10 | 3 | 6 | 1 | 9 | 12 | 0 | 7 | 2 | 4 | 8 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 9$ |  |  |  |  |  |  |  |  |  |  |  |  |  |

4. Fill in the missing numbers.
(a) $6 \times 9=$ $\qquad$ (b) $7 \times 3=$ $\qquad$ (c) $5 \times 6=$ $\qquad$ (d) $10 \times 6=$ $\qquad$
(e) $11 \times 9=$ $\qquad$ (f) $8 \times 3=$ $\qquad$
(i) $6 \times 6=$ $\qquad$ (i) $4 \times 9=$ $\qquad$
(g) $7 \times 9=$ $\qquad$ (h) $12 \times 3=$ $\qquad$
(m) $12 \times 9=$ $\qquad$ (n) $8 \times 9=$ $\qquad$
(k) $7 \times 6=$ $\qquad$ (1) $9 \times 3=$ $\qquad$
(o) $12 \times 6=$
(p) $11 \times 6=$
(m) $12 \times 9=$
5. Answer these multiplication problems,
(a)
 There are 9 players on a baseball team. If there are 13 teams in a league, how many players are there altogether? $\qquad$ $-$
(b) If Louise spends 6 hours a day in school, how long does she spend there altogether from Monday to Friday? $\qquad$ hours

(c) There are 6 foces on a die.

How many foces are there on 8 dice? $\qquad$
(d) A human ear has 3 bones in it.

How many bones would there be in the ears of 4 people?
(e)


If a shop was building 12 tricycles, how many wheels would they need altogether? $\qquad$
(f) A deck of cards has 4 lots of number 9 cards. How many number 9 cards are in 5 decks?
$\qquad$ $\cdots 8$
(g)


A sudoku puzzle has 9 squares with 9 numbers in each.
How many numbers is this in total? $\qquad$

