

Adding and Subtracting 9 and 11

Number Facts 1.1



Name _____

Date _____

1 Add 9 (think of add 10, minus 1).

eg $5 + 9 = (\text{think } 5 + 10 - 1) = 14$

a $2 + 9 = \underline{\hspace{2cm}}$

b $6 + 9 = \underline{\hspace{2cm}}$

c $9 + 9 = \underline{\hspace{2cm}}$

d $33 + 9 = \underline{\hspace{2cm}}$

e $55 + 9 = \underline{\hspace{2cm}}$

f $71 + 9 = \underline{\hspace{2cm}}$

g $119 + 9 = \underline{\hspace{2cm}}$

h $395 + 9 = \underline{\hspace{2cm}}$

i $684 + 9 = \underline{\hspace{2cm}}$

2 Subtract 9 (think of subtract 10, add 1).

eg $16 - 9 = (\text{think } 16 - 10 + 1) = 7$

a $28 - 9 = \underline{\hspace{2cm}}$

b $35 - 9 = \underline{\hspace{2cm}}$

c $47 - 9 = \underline{\hspace{2cm}}$

d $63 - 9 = \underline{\hspace{2cm}}$

e $81 - 9 = \underline{\hspace{2cm}}$

f $95 - 9 = \underline{\hspace{2cm}}$

g $107 - 9 = \underline{\hspace{2cm}}$

h $154 - 9 = \underline{\hspace{2cm}}$

i $492 - 9 = \underline{\hspace{2cm}}$

3 Add 11 (think of add 10, add 1).

eg $13 + 11 = (\text{think } 13 + 10 + 1) = 24$

a $28 + 11 = \underline{\hspace{2cm}}$

b $41 + 11 = \underline{\hspace{2cm}}$

c $67 + 11 = \underline{\hspace{2cm}}$

d $96 + 11 = \underline{\hspace{2cm}}$

e $105 + 11 = \underline{\hspace{2cm}}$

f $268 + 11 = \underline{\hspace{2cm}}$

g $432 + 11 = \underline{\hspace{2cm}}$

h $599 + 11 = \underline{\hspace{2cm}}$

i $724 + 11 = \underline{\hspace{2cm}}$

4 Subtract 11 (think of minus 10, minus 1).

eg $19 - 11 = (\text{think } 19 - 10 - 1) = 8$

a $26 - 11 = \underline{\hspace{2cm}}$

b $49 - 11 = \underline{\hspace{2cm}}$

c $72 - 11 = \underline{\hspace{2cm}}$

d $97 - 11 = \underline{\hspace{2cm}}$

e $102 - 11 = \underline{\hspace{2cm}}$

f $238 - 11 = \underline{\hspace{2cm}}$

g $599 - 11 = \underline{\hspace{2cm}}$

h $607 - 11 = \underline{\hspace{2cm}}$

i $987 - 11 = \underline{\hspace{2cm}}$

5 Solve the problems to find the number of bones.

a A human has $195 + 11 = \underline{\hspace{2cm}}$ bones. b A koala has about $60 - 9 = \underline{\hspace{2cm}}$ bones.

c A camel has $550 - 11 = \underline{\hspace{2cm}}$ bones. d An elephant has about $329 + 9 = \underline{\hspace{2cm}}$ bones.

e A giraffe has $215 - 9 = \underline{\hspace{2cm}}$ bones. f A horse has $194 + 11 = \underline{\hspace{2cm}}$ bones.

g Which two have the same number of bones? and

Number and place value: ACMNA055 Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation. Fluency: Use mental and informal strategies for addition and subtraction. Recognise and use number patterns.



Name _____

Date _____

× and ÷ are related

$$6 \times 5 = 30, 5 \times 6 = 30$$

$$30 \div 5 = 6, 30 \div 6 = 5$$

+ and - are related

$$6 + 5 = 11, 5 + 6 = 11$$

$$11 - 5 = 6, 11 - 6 = 5$$

1 Complete the related number sentences.

a $3 \times 7 = 21$

$$7 \times 3 = \underline{\hspace{2cm}}$$

$$21 \div 7 = \underline{\hspace{2cm}}$$

$$21 \div 3 = \underline{\hspace{2cm}}$$

d $8 + 4 = \underline{\hspace{2cm}}$

$$4 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$12 - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = 4$$

b $2 + 8 = \underline{\hspace{2cm}}$

$$8 + 2 = \underline{\hspace{2cm}}$$

$$10 - 8 = \underline{\hspace{2cm}}$$

$$10 - 2 = \underline{\hspace{2cm}}$$

e $5 \times 9 = \underline{\hspace{2cm}}$

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$45 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

c $6 \times 4 = \underline{\hspace{2cm}}$

$$\underline{\hspace{2cm}} \times 6 = \underline{\hspace{2cm}}$$

$$24 \div 4 = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \div 6 = \underline{\hspace{2cm}}$$

f $9 + 8 = \underline{\hspace{2cm}}$

$$\underline{\hspace{2cm}} + 9 = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - 8 = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

2 Link the related number sentences using coloured pencils.

$$13 + 7 = 20$$

$$18 + 6 = 24$$

$$5 \times 4 = 20$$

$$6 \times 4 = 24$$

$$7 + 13 = 20$$

$$24 - 6 = 18$$

$$24 - 18 = 6$$

$$20 - 7 = 13$$

$$24 \div 4 = 6$$

$$20 - 13 = 7$$

$$4 \times 5 = 20$$

$$20 \div 5 = 4$$

$$6 + 18 = 24$$

$$24 \div 6 = 4$$

$$20 \div 4 = 5$$

$$4 \times 6 = 24$$



3 Write three related number sentences for each.

a $8 \times 4 = 32$

b $63 \div 9 = 7$

c $14 + 6 = 20$

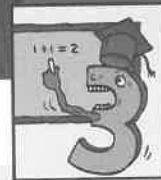
d $55 - 11 = 44$

e $10 \times 8 = 80$

f $60 + 30 = 90$

Number and place value: ACMNA054 Recognise and explain the connection between addition and subtraction.

Number and place value: ACMNA055 Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation. Fluency: Demonstrate the connection between addition and subtraction and multiplication and division by writing number sentences.



Name _____

Date _____

1 Complete the patterns.

- | | | |
|--------------------------------|--------------------------------|--------------------------------|
| a $3 + 9 = \underline{\quad}$ | b $30 - 4 = \underline{\quad}$ | c $6 + 3 = \underline{\quad}$ |
| $13 + 9 = \underline{\quad}$ | $30 - 14 = \underline{\quad}$ | $16 + 3 = \underline{\quad}$ |
| $23 + 9 = \underline{\quad}$ | $30 - 24 = \underline{\quad}$ | $26 + 3 = \underline{\quad}$ |
| d $70 - 7 = \underline{\quad}$ | e $88 - 4 = \underline{\quad}$ | f $26 + 9 = \underline{\quad}$ |
| $70 - 17 = \underline{\quad}$ | $88 - 14 = \underline{\quad}$ | $76 + 9 = \underline{\quad}$ |
| $70 - 27 = \underline{\quad}$ | $88 - 44 = \underline{\quad}$ | $96 + 9 = \underline{\quad}$ |

Look for patterns:

$7 + 2 = 9$	$70 - 6 = 64$
$17 + 2 = 19$	$70 - 16 = 54$
$27 + 2 = 29$	$70 - 26 = 44$

2 Complete the patterns.

- | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|
| a $8 \div 2 = \underline{\quad}$ | b $10 \div 5 = \underline{\quad}$ | c $5 \times 4 = \underline{\quad}$ |
| $80 \div 2 = \underline{\quad}$ | $100 \div 5 = \underline{\quad}$ | $50 \times 4 = \underline{\quad}$ |
| $800 \div 2 = \underline{\quad}$ | $1\,000 \div 5 = \underline{\quad}$ | $500 \times 4 = \underline{\quad}$ |
| d $64 \div 8 = \underline{\quad}$ | e $7 \times 7 = \underline{\quad}$ | f $45 \div 9 = \underline{\quad}$ |
| $640 \div 8 = \underline{\quad}$ | $70 \times 7 = \underline{\quad}$ | $450 \div 9 = \underline{\quad}$ |
| $6\,400 \div 8 = \underline{\quad}$ | $700 \times 7 = \underline{\quad}$ | $4\,500 \div 9 = \underline{\quad}$ |

$6 \div 3 = 2$	$6 \times 3 = 18$
$60 \div 3 = 20$	$60 \times 3 = 180$
$600 \div 3 = 200$	$600 \times 3 = 1\,800$

3 Complete the patterns.

- | | | |
|---------------------------------|---------------------------------------|------------------------------------|
| a $2 + 8 = \underline{\quad}$ | b $60 - 40 = \underline{\quad}$ | c $19 - 6 = \underline{\quad}$ |
| $20 + 80 = \underline{\quad}$ | $600 - 400 = \underline{\quad}$ | $190 - 60 = \underline{\quad}$ |
| $200 + 800 = \underline{\quad}$ | $6\,000 - 4\,000 = \underline{\quad}$ | $1\,900 - 600 = \underline{\quad}$ |

$4 + 2 = 6$	eg $4 - 2 = 2$
$40 + 20 = 60$	$40 - 20 = 20$
$400 + 200 = 600$	$400 - 200 = 200$

4 Complete the patterns.

- | | | |
|--------------------------------|--------------------------------|--|
| a $14 + 9 = \underline{\quad}$ | b $25 + 3 = \underline{\quad}$ | c $28 - 9 = \underline{\quad} = \underline{\quad}$ |
| $\underline{\quad} + 9 = 43$ | $\underline{\quad} + 3 = 38$ | $\underline{\quad} - 9 = 39$ |
| $\underline{\quad} + 9 = 73$ | $\underline{\quad} + 3 = 58$ | $\underline{\quad} - 9 = 59$ |



Name _____

Date _____

Divisible by 2

all even numbers

– 12, 16, 38, 276

Divisible by 5

ends in 5 or 0

– 25, 85, 190

Divisible by 10

ends in 0

– 230, 350, 70

1 Tick the correct answers.

- a $10 \div 2 = 5$ _____ b $20 \div 2 = 10$ _____ c $44 \div 2 = 21$ _____ d $66 \div 2 = 33$ _____
 e $82 \div 2 = 81$ _____ f $100 \div 2 = 55$ _____ g $28 \div 2 = 14$ _____ h $86 \div 2 = 43$ _____

2 Does each number divide evenly by 5? Answer yes or no.

- a 40 _____ b 85 _____ c 105 _____ d 48 _____
 e 72 _____ f 90 _____ g 113 _____ h 220 _____

3 Tick the numbers which are divisible by 5. Underline the numbers divisible by 10 and 5.

53 80 97 115 110 135 140 142 155 190 201

4 10 18 30 66 70 44 55 98 50 12 36 85 28 20 15 32 40 100

Which numbers are divisible by

- a 2? _____
 b 5? _____
 c 10? _____

CHECK! Some numbers will go onto more than one line.

5 Answer true or false.

- a Two children shared 52 smarties and had an even amount each. _____
 b Three girls shared 15 m of ribbon and there was no ribbon left over. _____
 c Ten schools shared \$1 500 prize money and received \$150 each. _____
 d Five athletes won 28 medals. Each athlete won the same number of medals. _____



Name _____

Date _____

1 True (T) or False (F) Remember to work out the brackets first.

- | | |
|---|---|
| a $10 + 6 + 4 = 4 + 6 + 10$ _____ | b $(2 \times 8) + 8 = 22$ _____ |
| c $44 \div 4 = 6 + 2 + 3$ _____ | d $8 \times 10 > 7 \times 11$ _____ |
| e $248 - 11 = 237 + 11$ _____ | f $81 \div 9 = 3 \times 3$ _____ |
| g $3 \times 1\,000 = 3\,000$ _____ | h $48 \div 12 < 12 \div 4$ _____ |
| i $13 + 19 = 19 + 13$ _____ | j $(25 \times 10) + (25 \times 10) = 500$ _____ |
| k $8 + 8 + 8 < 2 \times 8$ _____ | l $32 + 70 + 30 = 32 + 100$ _____ |
| m $(5 \times 3) + 1 = 4 \times 4$ _____ | n $6 \times 8 = 8 \times 6$ _____ |
| o $25 \div 5 > 30 \div 10$ _____ | p $(4 \times 10) + (4 \times 10) = 100$ _____ |

2 Write < or > to make the statement true.

< less than, > greater than

- | | | |
|-------------------------------------|---------------------------------|---|
| a 2×4 _____ 4×3 | b $42 + 11$ _____ 52 | c $28 \div 4$ _____ $4 + 6$ |
| d $20 + 6$ _____ 5×5 | e $30 + 20$ _____ 11×5 | f $462 - 11$ _____ $432 + 11$ |
| g $400 \div 10$ _____ 12×3 | h 8×10 _____ 70 | i $(5 \times 8) - 20$ _____ 3×10 |

3 Write an operation sign (+, -, ÷, ×) in the box to make the number sentence true.

- | | | |
|-----------------------------|------------------------|----------------------------------|
| a $55 \square 9 = 64$ | b $7 \square 9 = 63$ | c $96 \square 11 = 85$ |
| d $60 \square 5 = 12$ | e $104 \square 9 = 95$ | f $(5 \times 5) \square 25 = 50$ |
| g $100 \square 10 = 1\,000$ | h $45 \square 5 = 9$ | i $6 \square 3 = 18$ |

4 Using only these numbers, write 8 number sentences which are true.

_____	_____
_____	_____
_____	_____
_____	_____

20, 81, 9, 5, 45,
10, 3, 100, 10

5 Why is this statement false? $70 \div 7 = 70 \div 70$

Number and place value: ACMNA055 Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation. **Number and place value: ACMNA075** Recall multiplication facts up to 10×10 and related division facts.

Fluency: Use mental and informal strategies for multiplication and division and addition and subtraction.



Name _____

Date _____

- 1 a $3 + 9 =$ _____ b $\$36 + \$11 =$ _____ c $71 - 11 =$ _____
 d $342 - 9 =$ _____ e $48 - 11 =$ _____ f $155 + 9 =$ _____
 g $588 + 11 =$ _____ h $35 + 9 =$ _____ i $811 + 11 =$ _____
 j $\$24 - \$9 =$ _____ k $636 - 11 =$ _____ l $107 - 9 =$ _____

- 2 a $3 \times 9 =$ _____ b $7 + 13 =$ _____ c $6 \times 8 =$ _____
 $9 \times$ _____ = _____ _____ + 7 = _____ _____ $\times 6 =$ _____
 _____ $\div 9 =$ _____ _____ - 13 = _____ _____ $\div 8 =$ _____
 27 _____ = _____ _____ - 7 = _____ _____ \div _____ = _____

- 3 a $26 + 3 =$ _____ b $64 - 9 =$ _____ c $9 \times 4 =$ _____
 $26 + 13 =$ _____ $64 - 19 =$ _____ $90 \times 4 =$ _____
 $26 + 23 =$ _____ $64 - 29 =$ _____ $900 \times 4 =$ _____

- 4 a $100 \div 2 =$ _____ b $9 \times 6 =$ _____ c $80 \div 5 =$ _____
 d $28 \div 2 =$ _____ e $88 \div 4 =$ _____ f $400 \div 10 =$ _____
 g $24 \div 3 =$ _____ h $60 \div 6 =$ _____ i $100 \div 4 =$ _____
 j $9 \times 9 =$ _____ k $45 \div 5 =$ _____ l $90 \div 10 =$ _____

5 True (T) or False (F)

- a $(10 \times 2) + (10 \times 4) = 80$ _____ b $72 \div 9 = 19 - 11$ _____
 c $24 + 9 < 16$ _____ d $4 + 16 = 16 + 4$ _____
 e $20 \div 5 > 2$ _____ f $(9 \times 7) + 10 = (10 \times 7) + 3$ _____

6 Solve the problems.

- a Joe the butcher has 18 bones to share between 3 dogs.
 How many bones does each dog get?
 Number sentence _____ Answer _____
- b Geoff buys 6 toy planes for \$9 each. How much does he spend?
 Number sentence _____ Answer _____