

Adding and Subtracting 9 and 11

Number Facts 1.1



Name _____

Date _____

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

eg $5 + 9 =$ (think $5 + 10 - 1 = 14$)

a $2 + 9 =$ _____

b $6 + 9 =$ _____

c $9 + 9 =$ _____

d $33 + 9 =$ _____

e $55 + 9 =$ _____

f $71 + 9 =$ _____

g $119 + 9 =$ _____

h $395 + 9 =$ _____

i $684 + 9 =$ _____

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

eg $16 - 9 =$ (think $16 - 10 + 1 = 7$)

a $28 - 9 =$ _____

b $35 - 9 =$ _____

c $47 - 9 =$ _____

d $63 - 9 =$ _____

e $81 - 9 =$ _____

f $95 - 9 =$ _____

g $107 - 9 =$ _____

h $154 - 9 =$ _____

i $492 - 9 =$ _____

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

eg $13 + 11 =$ (think $13 + 10 + 1 = 24$)

a $28 + 11 =$ _____

b $41 + 11 =$ _____

c $67 + 11 =$ _____

d $96 + 11 =$ _____

e $105 + 11 =$ _____

f $268 + 11 =$ _____

g $432 + 11 =$ _____

h $599 + 11 =$ _____

i $724 + 11 =$ _____

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

eg $19 - 11 =$ (think $19 - 10 - 1 = 8$)

a $26 - 11 =$ _____

b $49 - 11 =$ _____

c $72 - 11 =$ _____

d $97 - 11 =$ _____

e $102 - 11 =$ _____

f $238 - 11 =$ _____

g $599 - 11 =$ _____

h $607 - 11 =$ _____

i $987 - 11 =$ _____

5 Solve the problems to find the number of bones.

a A human has $195 + 11 =$ _____ bones. b A koala has about $60 - 9 =$ _____ bones.

c A camel has $550 - 11 =$ _____ bones. d An elephant has about $329 + 9 =$ _____ bones.

e A giraffe has $215 - 9 =$ _____ bones. f A horse has $194 + 11 =$ _____ 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.

Related Number Facts

Number Facts 1.2

Name _____

Date _____



x 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.



Patterns

Name _____

Date _____

1 Complete the patterns.

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

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 $8 \div 2 =$ _____	b $10 \div 5 =$ _____	c $5 \times 4 =$ _____
$80 \div 2 =$ _____	$100 \div 5 =$ _____	$50 \times 4 =$ _____
$800 \div 2 =$ _____	$1000 \div 5 =$ _____	$500 \times 4 =$ _____
d $64 \div 8 =$ _____	e $7 \times 7 =$ _____	f $45 \div 9 =$ _____
$640 \div 8 =$ _____	$70 \times 7 =$ _____	$450 \div 9 =$ _____
$6400 \div 8 =$ _____	$700 \times 7 =$ _____	$4500 \div 9 =$ _____

$6 \div 3 = 2$	$6 \times 3 = 18$
$60 \div 3 = 20$	$60 \times 3 = 180$
$600 \div 3 = 200$	$600 \times 3 = 1800$

3 Complete the patterns.

a $2 + 8 =$ _____	b $60 - 40 =$ _____	c $19 - 6 =$ _____
$20 + 80 =$ _____	$600 - 400 =$ _____	$190 - 60 =$ _____
$200 + 800 =$ _____	$6000 - 4000 =$ _____	$1900 - 600 =$ _____

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

4 Complete the patterns.

a $14 + 9 =$ _____	b $25 + 3 =$ _____	c $28 - 9 =$ _____
_____ + 9 = 43	_____ + 3 = 38	_____ - 9 = 39
_____ + 9 = 73	_____ + 3 = 58	_____ - 9 = 59

Division Rules

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. _____

True or False



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 $3 \times 1000 = 3000$ _____

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 [] $9 = 64$

b 7 [] $9 = 63$

c 96 [] $11 = 85$

d 60 [] $5 = 12$

e 104 [] $9 = 95$

f (5×5) [] $25 = 50$

g 100 [] $10 = 1000$

h 45 [] $5 = 9$

i 6 [] $3 = 18$

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.

Assessment • Number Facts



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 _____