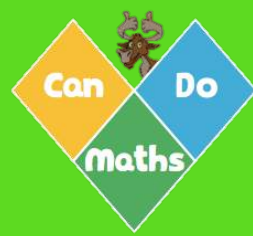


# ArithmeCheck



# Sample



Part of the ArithmeDo resource - Tests to go alongside the ArithmeKit

Steve Lomax and Liz Hopkins





# ArithmeCheck 2A



Can Do ...

Name: \_\_\_\_\_

Can't Do

... Yet

|  |   |  |
|--|---|--|
|  | 1. Explain about 10s and 1s in 2 digit numbers                              |  |
|  | 2. Compare and order numbers to 100 and position them on a number line      |  |
|  | 3. Partition a 2-digit number in different ways                             |  |
|  | 4. Use known facts to 10 to derive other facts                              |  |
|  | 5. Add multiples of 10 to a 2-digit number                                  |  |
|  | 6. Add a 1-digit number to a 2-digit number using known facts               |  |
|  | 7. Use rounding to add near multiples of 10                                 |  |
|  | 8. Partition the second number to add 10s then 1s                           |  |
|  | 9. Partition and recombine to add   |  |
|  | 10. Use known facts to 10 to derive other facts                             |  |
|  | 11. Subtract multiples of 10 from a 2-digit number                          |  |
|  | 12. Subtract a single digit number from a 2-digit number using number facts |  |
|  | 13. Find the difference between two numbers                                 |  |
|  | 14. Partition the second number to subtract 10s then 1s                     |  |
|  | 15. Use rounding to subtract near multiples of 10                           |  |
|  | 16. Recall and use multiplication and division facts for 2x table           |  |
|  | 17. Recall and use multiplication and division facts for 10x table          |  |
|  | 18. Recall and use multiplication and division facts for 5x table           |  |
|  | 19. Double numbers  |  |
|  | 20. Recognise odd and even numbers  |  |
|  | 21. Solve multiplication problems   |  |
|  | 22. Halve numbers   |  |
|  | 23. Use sharing to solve division problems                                  |  |
|  | 24. Use grouping to solve division problems                                 |  |





## Place Value

1 Fill in the missing numbers:

a)  $26 = \underline{\quad}$  tens and  $\underline{\quad}$  ones

b) 6 tens and 12 ones =  $\underline{\hspace{2cm}}$

2 Find a number to fill the gap:

a) 25,  $\underline{\hspace{2cm}}$ , 28

b) 39,  $\underline{\hspace{2cm}}$ , 42

3 Tick the odd one out:

a)

|           |           |
|-----------|-----------|
| 46        | $10 + 36$ |
| $40 + 16$ | $30 + 16$ |

b)

|           |           |
|-----------|-----------|
| $60 + 2$  | $40 + 32$ |
| $30 + 32$ | 62        |

## Addition



4 a)  $7 + 4 =$

b)  $30 + 60 =$

5 a)  $54 + 30 =$

b)  $40 + 36 =$

6 a)  $37 + 8 =$

b)  $56 + 7 =$

7 a)  $26 + 19 =$

b)  $34 + 29 =$



8 a)  $36 + 25 =$

b)  $47 + 32 =$



9 a)  $27 + 46 =$

b)  $38 + 57 =$





## Subtraction

**10** a)  $28 - 5 =$

b)  $70 - 30 =$

**11** a)  $63 - 20 =$

b)  $73 - 40 =$



**12** a)  $44 - 7 =$

b)  $64 - 8 =$





13 a)  $43 - 37 =$

b)  $58 - 52 =$



14 a)  $47 - 23 =$

b)  $64 - 27 =$



15 a)  $53 - 19 =$

b)  $87 - 39 =$





## Multiplication and Division

|           |  |                          |
|-----------|--|--------------------------|
| <b>16</b> | a) i) $6 \times 2 =$ ii) $0 \times 2 =$ iii) $12 \times 2 =$ | <input type="checkbox"/> |
|           | b) i) $16 \div 2 =$ ii) $2 \div 2 =$ iii) $14 \div 2 =$      |                          |

|           |  |                          |
|-----------|--|--------------------------|
| <b>17</b> | a) i) $6 \times 10 =$ ii) $10 \times 10 =$ iii) $12 \times 10 =$ | <input type="checkbox"/> |
|           | b) i) $70 \div 10 =$ ii) $110 \div 10 =$ iii) $50 \div 10 =$     |                          |

|           |  |                          |
|-----------|--|--------------------------|
| <b>18</b> | a) i) $9 \times 5 =$ ii) $0 \times 5 =$ iii) $12 \times 5 =$ | <input type="checkbox"/> |
|           | b) i) $35 \div 5 =$ ii) $40 \div 5 =$ iii) $55 \div 5 =$     |                          |





## Multiplication

19 Double:

a) 34

b) 27

20 a) Write 4 even numbers less than 20

b) Write 4 odd numbers greater than 30

21 a) What is the total number of legs of 3 cows?

b) Complete the statement:

$$\underline{\quad} \times 5 = \underline{\quad} \times 10$$



## Division

**22** Halve:

a) 24

b) 36

**23**

a) 12 apples are shared between 3 people.  
How many apples does each person receive?

b) 15 sweets are shared between 5 people.  
How many sweets does each person receive?

**24**

a) 20 children get into groups of 4.  
How many groups can be made?

b) How many pairs of socks can be made using 14 socks?



Can Do...

# ArithmeCheck 4A



Can't Do  
... Yet

1. Order numbers beyond 1000 and position them on a number line

2. Order decimal numbers and position them on a number line

3. Round numbers to the nearest 10, 100 or 1000

4. Round numbers with 1 decimal place to the nearest whole number

5. Use number facts to add

6. Round and adjust to add numbers including decimal numbers

7. Choose appropriate written or mental methods to add decimals

8. Choose appropriate written or mental methods to add 4-digit numbers

9. Use number facts to subtract

10. Find the difference between two numbers including decimals

11. Round and adjust to subtract numbers including decimals

12. Choose appropriate written or mental subtraction methods

13. Recall and use multiplication and division facts for the 6x table

14. Recall and use multiplication and division facts for the 12x table

15. Recall and use multiplication and division facts for the 9x table

16. Recall and use multiplication and division facts for the 11x table

17. Recall and use multiplication and division facts for the 7x table

18. Double and halve numbers

19. Use place value and known facts to multiply mentally

20. Multiply whole numbers and those involving decimals by 100

21. Multiply 3-digit numbers by 1-digit numbers using efficient methods

22. Divide whole numbers and those involving decimals by 100

23. Use place value and known facts to divide mentally

24. Divide 3-digit numbers by 1-digit numbers using efficient methods



## Place Value

1 a) Order these 4-digit numbers from smallest to largest:

9584    9485    9845    9548

b) Make the largest 4-digit number using the digits:

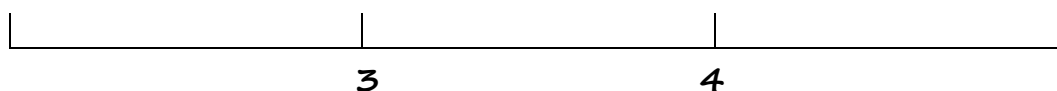
5    8    9    4

2 a) Order these decimals from smallest to largest:

4.3    4.13    4.31    4.1

b) Place these decimals on the number line:

2.93    4.02    3.29    4.75




3 Round 5849 to the nearest:

a) 100

b) 1000

4 a) Round 24.5 to the nearest whole number:

b) Complete the statements:

15. \_\_\_\_ rounded to the nearest whole number is 16

16. \_\_\_\_ rounded to the nearest whole number is 16





## Addition

5

Calculate:

a)  $0.3 + 0.4$

b)  $0.6 + 0.7$



6

Calculate:

a)  $1.64 + 2.99$

b)  $3.31 + 3.9$



7 Calculate:

a)  $5.62 + 3.26$

b)  $4.73 + 5.4$



8 Work out:

a)  $3568 + 1998$

b)  $3568 + 4723$





## Subtraction

9

Calculate:

a)  $2.3 - 0.7$

b)  $4.8 - 1.7$



10

Calculate:

a)  $17.2 - 13.6$

b)  $3.03 - 1.98$





11 Work out:

a)  $17.5 - 4.9$

b)  $4838 - 1999$



12 Calculate:

a)  $8467 - 2999$

b)  $3465 - 2783$





## Multiplication and Division

|    |                      |                    |                      |                          |
|----|----------------------|--------------------|----------------------|--------------------------|
| 13 | a) i) $6 \times 4 =$ | ii) $0 \times 6 =$ | iii) $12 \times 6 =$ | <input type="checkbox"/> |
|    | b) i) $36 \div 6 =$  | ii) $6 \div 6 =$   | iii) $54 \div 6 =$   |                          |

|    |                       |                     |                       |                          |
|----|-----------------------|---------------------|-----------------------|--------------------------|
| 14 | a) i) $12 \times 5 =$ | ii) $0 \times 12 =$ | iii) $12 \times 12 =$ | <input type="checkbox"/> |
|    | b) i) $108 \div 12 =$ | ii) $72 \div 12 =$  | iii) $12 \div 12 =$   |                          |

|    |                      |                    |                      |                          |
|----|----------------------|--------------------|----------------------|--------------------------|
| 15 | a) i) $9 \times 7 =$ | ii) $9 \times 9 =$ | iii) $12 \times 9 =$ | <input type="checkbox"/> |
|    | b) i) $54 \div 9 =$  | ii) $9 \div 9 =$   | iii) $36 \div 9 =$   |                          |

|    |                       |                      |                       |                          |
|----|-----------------------|----------------------|-----------------------|--------------------------|
| 16 | a) i) $0 \times 11 =$ | ii) $11 \times 11 =$ | iii) $11 \times 10 =$ | <input type="checkbox"/> |
|    | b) i) $99 \div 11 =$  | ii) $132 \div 11 =$  | iii) $11 \div 11 =$   |                          |

|    |                      |                    |                      |                          |
|----|----------------------|--------------------|----------------------|--------------------------|
| 17 | a) i) $7 \times 7 =$ | ii) $7 \times 8 =$ | iii) $12 \times 7 =$ | <input type="checkbox"/> |
|    | b) i) $63 \div 7 =$  | ii) $21 \div 7 =$  | iii) $42 \div 7 =$   |                          |

## Multiplication

18

a) Double:

i)  $2344$

ii)  $3486$

b) Halve:

i)  $2642$

ii)  $3436$

19

Calculate:

a)  $40 \times 70$

b)  $8 \times 900$

20

Calculate:

a)  $7.6 \times 100$

b)  $46.3 \times 100 =$

21 Calculate:

a)  $495 \times 6$

b)  $5 \times 163$





## Division

22 a)  $450 \div 100 =$

b)  $14.3 \div 100 =$



23 a)  $5.6 \div 8 =$

b)  $4.9 \div 0.7 =$



24 Calculate:

a)  $468 \div 4$

b)  $659 \div 3$





Can Do...

# ArithmeCheck 6A



Can't Do  
... Yet

Name:

|  |   |  |
|--|---|--|
|  | 1. Identify the value of each digit to 3dp  |  |
|  | 2. Order numbers up to 10,000,000   |  |
|  | 3. Compare and order decimals   |  |
|  | 4. Round numbers to required accuracy   |  |
|  | 5. Multiply numbers by multiples of 10, 100 and 1000                                  |  |
|  | 6. Understand the order of operations   |  |
|  | 7. Multiply whole numbers using efficient methods                                     |  |
|  | 8. Multiply decimals using efficient methods  |  |
|  | 9. Divide numbers by multiples of 10, 100 and 1000                                    |  |
|  | 10. Divide whole numbers using efficient methods                                      |  |
|  | 11. Divide decimals using efficient methods   |  |
|  | 12. Simplify fractions  |  |
|  | 13. Compare and order fractions   |  |
|  | 14. Recall and use equivalence between simple fractions and decimals                  |  |
|  | 15. Solve problems involving fractions of amounts                                     |  |
|  | 16. Add fractions   |  |
|  | 17. Subtract fractions  |  |
|  | 18. Multiply proper fractions   |  |
|  | 19. Divide proper fractions by whole numbers  |  |
|  | 20. Recall and use equivalences between percentages and simple fractions and decimals |  |
|  | 21. Find 10%, 25%, 50% and 75% of an amount   |  |
|  | 22. Find simple percentages   |  |
|  | 23. Find percentages  |  |
|  | 24. Use percentages for comparison  |  |





## Place Value

1 a) Make the smallest number using the digits 4, 0, 6 and 5

b) Write down the value of the 6 in the number 5.632

2 a) Circle the largest number:

6,665,655    6,665,565    5,666,555    5,665,555

b) Circle the smallest number:

7,643,599    7,364,643    7,643,600    7,436,643

3 Order these decimal numbers from smallest to largest:

a) 5.68, 5.628, 5.86, 5.286

b) 4.3, 4.23, 4.123, 4.2

4 Round 369,248.394 to:

a) 2 decimal places

b) the nearest 1000

## Multiplication

**5** Calculate:

a)  $15 \times 700 =$

b)  $600 \times 0.32 =$



**6** Work out:

a)  $2 \times 4 + 5 =$

b)  $2 + 4 \times 5 =$





7 Calculate:

a)  $3576 \times 99$

b)  $3714 \times 39$



8 Calculate:

a)  $18 \times 2.5$

b)  $5.1 \times 24$





## Division

9

Calculate:

a)  $448,000 \div 4000$

b)  $196 \div 400$



10

Calculate:

a)  $1440 \div 12 =$

b)  $1081 \div 23 =$





**11** Calculate:

a)  $28.2 \div 6 =$

b)  $12.1 \div 11 =$



# Fractions

**12** Simplify:

a)  $\frac{6}{15}$

b)  $\frac{24}{60}$

**13** Use  $<$ ,  $=$  or  $>$  to compare the fractions:

a)  $\frac{4}{5}$        $\frac{4}{6}$

b)  $\frac{2}{3}$        $\frac{5}{8}$

**14** a) Convert 0.35 to a fraction in its simplest form

b) Convert  $\frac{1}{8}$  to a decimal

**15** Calculate:

a)  $\frac{3}{8}$  of 32

b)  $\frac{6}{7}$  of 56

**16**

Calculate:

a)  $2\frac{3}{4} + \frac{5}{8} =$

b)  $1\frac{2}{3} + 1\frac{5}{9} =$

**17**

Calculate:

a)  $\frac{6}{7} - \frac{1}{4} =$

b)  $1\frac{3}{4} - \frac{2}{3} =$



**18**

Calculate:

a)  $\frac{1}{4} \times \frac{1}{2} =$

b)  $\frac{3}{12} \times \frac{1}{6} =$

**19**

Calculate:

a)  $\frac{4}{5} \div 4 =$

b)  $\frac{1}{2} \div 3 =$





## Percentages

20 Complete the table:

| Percentage | Decimal | Fraction |
|------------|---------|----------|
|            | 0.15    |          |
| 45%        |         |          |

21 Find:

a) 25% of 60

b) 75% of 160

22 Calculate:

a) 15% of 40

b) 45% of 120

23

Find:

a) 12% of 60

b) 52% of 180



24

Circle the correct statement:

a) 50% of 100 = 25% of 200

or

25% of 100 = 50% of 200?

b) 35% of 100 = 70% of 200

or

35% of 200 = 70% of 100?

