



RICH MATHEMATICAL TASK BOOKLET

NUMBER & ALGEBRA

YEAR 3

Task Copy Masters

*Phase 1: Year 3: Number and Algebra***Task 1**

Solve the equations. What do you notice?

$$30 + 10 =$$

$$26 + 20 =$$

$$54 + 30 =$$

$$39 - 10 =$$

$$99 - 10 =$$

Represent your thinking using an empty number line.

*Phase 1: Year 3: Number and Algebra***Task 1 (independent)**

Solve the following problems:

$$40 + 20 =$$

$$36 + 20 =$$

$$55 + 40 =$$

$$78 + 10 =$$

$$89 - 20 =$$

What patterns do you notice?

*Phase 1: Year 3: Number and Algebra***Task 2**

What do you notice?

$$54 + 35 =$$

$$126 + 42 =$$

$$39 - 15 =$$

$$265 - 33 =$$

Represent your thinking using equations and an empty number line.

*Phase 1: Year 3: Number and Algebra***Task 2 (independent)**

Solve these problems:

$$33 + 11 =$$

$$23 + 25 =$$

$$442 + 35 =$$

$$48 - 16 =$$

$$56 - 12 =$$

$$168 - 25 =$$

*Phase 1: Year 3: Number and Algebra***Task 3**

Rena collected 56 stickers. She gave 24 stickers to her friend. How many stickers does Rena have left?

Asa collected 168 stickers. She gave 31 stickers to her friend. How many stickers does Asa have left?

Kelly collected 399 stickers. She gave 73 stickers to her friend. How many stickers does Kelly have left?

Phase 1: Year 3: Number and Algebra

Task 3 (independent)

May-Lee had 88 beads. She made a necklace for her cousin and used 56 beads. How many beads does May-Lee have left over?

Beth had 237 beads. She made a necklace for her cousin and used 21 beads. How many beads does Beth have left over?

Dakota had 456 beads. She made a necklace for her cousin and used 32 beads. How many beads does Dakota have left over?

*Phase 1: Year 3: Number and Algebra***Task 4**

Monty is sorting his marbles into colours. He has 56 blue marbles and 29 red marbles. How many marbles does Monty have altogether?

Pauli is sorting his marbles into colours. He has 227 black marbles and 25 orange marbles. How many marbles does Pauli have altogether?

Jade is sorting her marbles into colours. She has 39 yellow marbles and 138 green marbles. How many marbles does Jade have altogether?

Phase 1: Year 3: Number and Algebra

Task 4 (independent)

Jack and Jill collected acorns in the playground. Jack has 65 acorns and Jill has 27. How many acorns do they have altogether?

Dallas and Vegas collected acorns in the playground. Dallas has 118 acorns and Vegas has 46. How many acorns do they have altogether?

Roman and Elias collected acorns in the playground. Roman had 59 acorns and Elias had 238. How many acorns do they have altogether?

*Phase 1: Year 3: Number and Algebra***Task 5**

Manu was helping at the sausage sizzle. They cooked 56 sausages and sold 28 sausages. How many sausages do they have left over?

Sepi was helping at the sausage sizzle. They cooked 182 sausages and sold 69 sausages. How many sausages do they have left over?

Don was helping at the sausage sizzle. They cooked 174 sausages and sold 137 sausages. How many sausages do they have left over?

*Phase 1: Year 3: Number and Algebra***Task 5 (independent)**

Ana had 51 loom bands. She used 27 to make a bracelet for her friend. How many loom bands does she have left?

Tina has 148 loom bands. She used 39 to make a bracelet for her friend. How many loom bands does she have left?

Sam has 152 loom bands. She used 126 to make a bracelet for her friend. How many loom bands does she have left?

*Phase 1: Year 3: Number and Algebra***Task 6**

Aunty had 24 feijoas. She asked Tama to pick some more. Now Aunty has 51 feijoas. How many feijoas did Tama pick?

Dad had 44 nails in his toolbox. He found some more in the garage. Now he has 172 nails. How many nails did Dad find in the garage?

Mei had 116 Pokemon cards in her collection. She was given some cards for her birthday. Now Mei has 145 Pokemon cards. How many cards was Mei given?

*Phase 1: Year 3: Number and Algebra***Task 6 (independent)**

Uncle had 22 feijoas in one bag and 14 feijoas in another bag. How many feijoas does uncle have altogether?

Mona picked 54 strawberries and her cousin picked some more. Now they have 92 strawberries. How many did cousin pick?

Mere has 37 pink beads in one bag. She also has some yellow beads in another bag. Altogether she has 76 beads. How many yellow beads does she have?

*Phase 1: Year 3: Number and Algebra***Task 7**

Can you find the missing numbers?

$$18 + 6 = \underline{\quad} + 5$$

$$35 + 19 = 36 + \underline{\quad}$$

$$19 + \underline{\quad} = 17 + 25$$

$$\underline{\quad} + 86 = 19 + 85$$

*Phase 1: Year 3: Number and Algebra***Task 7 (independent)**

Solve the following problems:

$$126 + 57 =$$

$$122 - 72 =$$

$$74 + 168 =$$

$$137 + 85 =$$

$$192 - 65 =$$

*Phase 1: Year 3: Number and Algebra***Task 8**

Find the missing numbers:

$$23 - 17 = \underline{\quad} - 15$$

$$46 - 28 = 45 - \underline{\quad}$$

$$\underline{\quad} - 36 = 71 - 26$$

$$143 - \underline{\quad} = 43 - 29$$

*Phase 1: Year 3: Number and Algebra***Task 8 (independent)**

Find the missing numbers:

$$18 + 15 = \underline{\quad} + 16$$

$$\underline{\quad} + 27 = 14 + 29$$

$$123 + \underline{\quad} = 133 + 18$$

$$64 + 38 = 62 + \underline{\quad}$$

$$157 + 178 = \underline{\quad} + 168$$

Use arrows to show your thinking.

Task 9

Jonty said “When you are adding two numbers together, it doesn’t matter which order you use to add them, the answer will be the same”.

Work in a group and explore whether you agree or disagree with this statement.

Can you prove that it works for all numbers?

Does what Jonty said also work for subtraction, multiplication, and division?

*Phase 1: Year 3: Number and Algebra***Task 9 (independent)**

Find the missing numbers:

$$46 - 18 = \underline{\quad} - 16$$

$$67 - 49 = \underline{\quad} - 48$$

$$\underline{\quad} - 25 = 63 - 15$$

$$193 - \underline{\quad} = 93 - 29$$

*Phase 1: Year 3: Number and Algebra***Task 10**

What do you know about odd and even numbers?

Use the equipment to build models of odd and even numbers.

What patterns do you notice related to odd and even numbers? Does this always work?

*Phase 1: Year 3: Number and Algebra***Task 10 (independent)**

Solve the following problems:

$$27 + 125 =$$

$$156 - \underline{\quad} = 13$$

$$\underline{\quad} + 72 = 188$$

$$13 + 155 =$$

$$50 = \underline{\quad} + \underline{\quad}$$

$$46 = \underline{\quad} + \underline{\quad}$$

$$52 + 19 =$$

$$36 + 152 =$$

*Phase 1: Year 3: Number and Algebra***Task 11 (optional task)**

Solve the following problems:

$$56 - 37 =$$

$$183 - 138 =$$

$$54 + 37 =$$

$$139 + 46 =$$

*Phase 1: Year 3: Number and Algebra***Task 11 (independent)**

Solve the problems below:

$$63 - 19 =$$

$$45 - 26 =$$

$$82 - 57 =$$

$$43 + 118 =$$

$$112 + 98 =$$

Use an empty number line and equations to show how you have solved them.

*Phase 1: Year 3: Number and Algebra***Task 12 (optional task)**

Solve the following problems:

$$59 + 64 =$$

$$657 + 35 =$$

$$94 - 37 =$$

$$153 - 49 =$$

$$121 - 68 =$$