

RUNNING NOTES

Basic Operations

Teacher's handwritten notes, typed

IN THESE NOTES

Single + Single , Single – Single

double – Single

single – single

Double – Double

Divisions

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Single + Single , Single – Single

→ $5 + 3 =$

$5 - 3 =$

$7 + 2 =$

$8 + 1 =$

$7 - 2 =$

$8 - 1 =$

→ $6 + 3 =$

$4 + 3 =$

$4 - 3 =$

$6 - 3 =$

$6 + 4 =$

$6 - 4 =$

→ $7 + 3 =$

$2 + 7 =$

$2 + 5 =$

$1 + 8 =$

$7 - 3 =$

$5 - 4 =$

→ $9 + 9 = 10 + \square =$

$9 + 6 = 10 + \square =$

$9 + 3 = 10 + \square =$

$9 + 5 = 10 + \square =$

→ $8 + 7 = 10 + \square =$

$8 + 4 = 10 + \square =$

$8 + 3 = 10 + \square =$

→ $7 + 6 = 10 + \square =$

$7 + 3 =$

$7 + 5 = 10 + \square =$

$6 + 5 = 10 + \square =$

$6 + 8 = 10 + \square =$

$3 + 9 = 10 + \square =$

$2 + 9 = 10 + \square =$

$$6 + 4 =$$

→ $9 + \square = 9$

$$8 + \square = 10$$

$$6 + \square = 9$$

$$4 + \square = 9$$

$$1 + \square = 7$$

$$2 + \square = 8$$

$$3 + \square = 8$$

→ $4 + \square = 8$

$$3 + \square = 9$$

$$5 + \square = 7$$

$$2 + \square = 5$$

$$7 + \square = 9$$

$$9 + \square = 10$$

$$3 + \square = 4$$

double – Single

$$10 - 7 =$$

$$20 - 5 =$$

$$30 - 6 =$$

$$10 - 2 =$$

$$20 - 3 =$$

$$30 - 3 =$$

$$40 - 8 =$$

$$50 - 7 =$$

$$60 - 8 =$$

→ $70 - 2 =$

$$80 - 5 =$$

$$90 - 7 =$$

[arrows drawn from the units digit of the first number to the number being subtracted in each sum]

→ $13 - 2 = 11$

→ $15 - 3 = 12$

→ $18 - 6 = 12$

$$\rightarrow 25 - 3 = 22$$

$$\rightarrow 57 - 4 = 53$$

$$\rightarrow 46 - 3 = 43$$

$$\rightarrow 58 - 2 = 56$$

$$\rightarrow 13 - 8 = \underline{\quad}$$

$$1\text{st } 13 - 8 = 10 - 5 = 5$$

$$2\text{nd } 13 - 8 = 15 - 10 = 5$$

$$3\text{rd } 13 - 8 = 5$$

[side working: 13 split into 10 and 3; 8 split, with 2 and 5 written below]

double – Single

$$10 - 6 = 4$$

$$10 - 3 = 7$$

$$10 - 7 = 3$$

$$10 - 8 = 2$$

$$10 - 9 = 1$$

$$20 - 7 = 13$$

[diagram: number line 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 with jumps back from 20 to 13, arrow down at 13]

$$20 - 8 = 12$$

$$20 - 4 = 16$$

$$20 - 5 = 15$$

$$\rightarrow 30 - 7 = 23$$

$$\rightarrow 40 - 5 = 35$$

$$\rightarrow 50 - 7 = 43$$

$$\rightarrow 60 - 3 = 57$$

$$\rightarrow 70 - 8 = 62$$

$$\rightarrow 80 - 4 = 76$$

$$\rightarrow 90 - 6 = 84$$

→

[arrows drawn from the units digit of the first number to the number being subtracted]

→ $15 - 3 = 12$

→ $35 - 3 = 32$

→ $57 - 4 = 53$

→ $68 - 5 = 63$

→ $77 - 5 = 72$

→ $82 - 1 = 81$

→ $98 - 7 = 91$

→ $47 - 5 = 42$

→ $29 - 8 = 21$

→ $23 - 7 =$

[arrow from the 3 of 23 to the 7]

Sol 1st $23 - 7 = 20 - 4 = 16$

2nd $23 - 7 = 26 - 10 = 16$

3rd $23 - 7 = 16$

[side working: 23 and 10 bracketed → 13; 10 and 7 bracketed → 3; $13 + 3 = 16$]

→ $56 - 7 =$

Sol 1st $56 - 7 = 50 - 1 = 49$

2nd $56 - 7 = 59 - 10 = 49$

3rd $56 - 7 = 49$

[side working: 56 and 10 bracketed → 46; 10 and 7 bracketed → 3; $46 + 3 = 49$]

H.W

① $52 - 6 = \underline{\quad}$

② $37 - 8 = \underline{\quad}$

③ $93 - 7 = \underline{\quad}$

④ $63 - 8 = \underline{\quad}$

1) $88 - 9 = \underline{\quad}$

1st Method

$88 - 9 = 80 - 1 = 79$

2nd method

$$88 - 9 = 89 - 10 = 79$$

3rd method

$$88 - 9 = 79$$

[side working: 88 and 10 bracketed $\rightarrow$ 78; 10 and 9 bracketed $\rightarrow$ +1; 78 + 1 = 79]

$$76 - 7 = \underline{\quad}$$

1st method:-

$$76 - 7 = 70 - 1 = 69$$

2nd method

$$76 - 7 = 79 - 10 = 69$$

3rd method

[working: 76 and 10 bracketed $\rightarrow$ 66; 10 and 7 bracketed $\rightarrow$ 3; 66 + 3 = 69]

H.W

$$13 - 2 =$$

$$17 - 4 =$$

$$16 - 5 =$$

$$19 - 6 =$$

$$18 - 5 =$$

$$17 - 9 =$$

$$17 - 3 =$$

$$19 - 9 =$$

$$19 - 8 =$$

$$19 - 4 =$$

$$13 - 9 =$$

$$12 - 9 =$$

$$12 - 8 =$$

$$13 - 7 =$$

$$14 - 7 =$$

$$14 - 6 =$$

$$15 - 9 =$$

$$15 - 6 =$$

$$16 - 7 =$$

$$16 - 8 =$$

$$15 - 8 =$$

$$14 - 9 =$$

$$19 - 4 =$$

$$12 - 4 =$$

$$15 - 6 =$$

$$16 - 9 =$$

$$19 - 1 =$$

$$20 - 9$$

→ $23 - 2 = 21$

$$23 - 8 = 25 - 10 = 15$$

$$(or) 23 - 8 = 20 - 5 = 15$$

[arrows drawn from the 3 of 23 to the number being subtracted]

→ $11 - 3 = 18 - 10 = 8$

$$15 - 2 =$$

$$17 - 5 =$$

$$13 - 8 =$$

$$12 - 7 =$$

→ $23 - 5 = 28 - 10 = 18$ ✓

$$✓ 52 - 7 = 45$$

$$✓ 33 - 9 = 34 - 10 = 24$$

$$55 - 2 = 53$$

$$✓ 47 - 3 = 44$$

→ $39 - 9 =$

$$✓ 45 - 8 =$$

$$✓ 78 - 9 =$$

$$✓ 43 - 2 =$$

$$✓ 89 - 2 =$$

→ ✓ $9 - 2 =$

$$✓ 13 - 5 =$$

$$✓ 7 - 2 =$$

$$✓ 15 - 6 =$$

$$6 - 4 =$$

$$13 - 8 =$$

[arrows drawn from the units digit of the first number to the number being subtracted]

single – single

$$7 - 5 =$$

$$5 - 2 =$$

$$5 - 5 =$$

$$8 - 5 =$$

$$9 - 6 =$$

$$6 - 4 =$$

$$9 - 1 =$$

$$7 - 3 =$$

Double – single

$$10 - 2 =$$

$$10 - 7 =$$

$$10 - 4 =$$

$$10 - 3 =$$

$$10 - 9 =$$

$$10 - 6 =$$

$$10 - 8 =$$

$$10 - 5 =$$

$$13 - 2 =$$

$$13 - 8 =$$

Ist method

$$13 - 8 = 10 - 5 = 5$$

IInd method

$$13 - 8 = 15 - 10 = 5$$

IIIrd method

$$13 - 8 = 5$$

[side working: 13 and 10 bracketed $\rightarrow$ 3; 10 and 8 bracketed $\rightarrow$ 2; $3 + 2 = 5$]

$$14 - 7 = 7$$

Ist method

$$14 - 7 = 10 - 3 = 7$$

IInd method

$$14 - 7 = 17 - 10 = 7$$

IIIrd method

$$14 - 7 = 7$$

[working: 14 and 10 bracketed $\rightarrow$ 4; 10 and 7 bracketed $\rightarrow$ 3; $4 + 3 = 7$]

$$14 - 3 = 11$$

$$14 - 8 = 6$$

$$15 - 6 = 9$$

$$15 - 2 = 13$$

$$19 - 8 = 11$$

$$17 - 4 = 13$$

$$16 - 9 = 7$$

$$19 - 5 = 14$$

$$18 - 9 = 9$$

$$14 - 6 = 8$$

[arrows on the first three from the units digit of the first number to the number being subtracted]

H.W

$$19 - 6 = \underline{\quad}$$

$$18 - 2 = \underline{\quad}$$

$$18 - 8 = \underline{\quad}$$

$$17 - 9 = \underline{\quad}$$

$$20 - 1 = \underline{\quad}$$

$$25 - 8 = \underline{\quad}$$

$$30 - 9 = \underline{\quad}$$

$$35 - 7 = \underline{\quad}$$

$$42 - 4 = \underline{\quad}$$

$$67 - 8 = \underline{\quad}$$

Double – Double

$$30 - 20 =$$

$$50 - 40 =$$

$$70 - 50 =$$

$$90 - 40 =$$

$$80 - 10 =$$

$$60 - 30 =$$

$$40 - 10 =$$

$$52 - 20 = 32$$

$$65 - 30 = 35$$

$$75 - 40 = 35$$

$$98 - 60 = 38$$

$$37 - 20 = 17$$

$$29 - 10 = 19$$

$$46 - 20 = 26$$

$$59 - 40 = 19$$

$$54 - 32 = \underline{\quad}$$

1st method

$$54 - 32 = 24 - 2 = 22$$

2nd method

$$54$$

$$- 32$$

$$22$$

$$54 - 38 = \underline{\quad}$$

1st method

$$54 - 38 = 24 - 8$$

$$= 20 - 4$$

$$= 16$$

2nd method

$$54 - 38 = 56 - 40 = 16$$

3rd method

$$54 - 38 = 16$$

[side working: 54 and 40 bracketed $\rightarrow$ 14; 40 and 38 bracketed $\rightarrow$ 2; 14 + 2 = 16]

4th method

[column subtraction: 54 with 5 crossed to 4 and 4 made 14, $- 38$, answer 16]

H.W

$$34 - 17 = \underline{\quad}$$

$$56 - 24 = \underline{\quad}$$

$$67 - 39 = \underline{\quad}$$

$$1\text{st } 34 - 17 = 24 - 7 = 20 - 3 = 17$$

$$2\text{nd } 34 - 17 = 37 - 20 = 17$$

$$3\text{rd } 34 - 17 = 17$$

[side working: 34 and 20 bracketed $\rightarrow$ +14; 20 and 17 bracketed $\rightarrow$ 3; 14 + 3 = 17]

4th

[column subtraction: 34 with 3 crossed to 2 and 4 made 14, $- 17$, answer 17]

$\rightarrow 56 - 24 = 32$

$$67 - 39 = \underline{\quad}$$

$$1^{\text{st}} \ 67 - 39 = 37 - 9 = 30 - 2 = 28$$

$$2^{\text{nd}} \ 67 - 39 = 68 - 40 = 28 \checkmark$$

$$3^{\text{rd}} \ 67 - 39 = 28$$

[side working: 67 and 40 bracketed $\rightarrow +27$; 40 and 39 bracketed $\rightarrow 1$; $27 + 1 = 28$]

4th

[column subtraction: 67 with 6 crossed to 5 and 7 made 17, $- 39$, answer 28]

$$\rightarrow 120 - 3 = 117$$

$$\rightarrow 130 - 8 = 122$$

$$\rightarrow 140 - 7 = 133$$

$$\rightarrow 250 - 6 = 244$$

$$\rightarrow 350 - 4 = 346$$

$$\rightarrow 490 - 9 = 481$$

$$\rightarrow 120 - 13 = 110 - 3 = 107$$

2nd

$$120 - 13$$

$$= 127 - 20$$

$$= 107$$

[column subtraction: 120 with 2 crossed and 1 10 written above, $- 13$, answer 107]

$$3^{\text{rd}} \ 120 - 13 = 107$$

[side working: 120 and 20 bracketed $\rightarrow +100$; 20 and 13 bracketed $\rightarrow 7$; $100 + 7 = 107$]

$$\rightarrow 137 - 12 = 125$$

(or)

$$137$$

$$12$$

$$125$$

$$\rightarrow 137 - 29 = 117 - 9 = 110 - 2 = 108$$

$$2^{\text{nd}} \ 137 - 29 = 138 - 30 = 108$$

$$3^{\text{rd}} \ 137 - 29 = 108$$

[side working: 137 and 30 bracketed $\rightarrow +107$; 30 and 29 bracketed $\rightarrow 1$; $107 + 1 = 108$]

4th

[column subtraction: 137 with 3 crossed to 2 and 7 made 17, $- 29$, answer 108]

H.W

$120 - 7 =$

$130 - 12 =$

$133 - 12 =$

$133 - 17 =$

$258 - 8 =$

$100 - 72 =$

$100 - 12 =$

$100 - 27 =$

$100 - 56 =$

$100 - 23 =$

$100 - 46 =$

$100 - 38 =$

$100 - 4 \text{ [?]} =$

$100 - 32 =$

$100 - 17 =$

$100 - 74 =$

$100 - 83 =$

[the subtracted numbers are underlined; some digits circled]

$100 - 2 = 98$

$100 - 4 = 96$

$100 - 7 = 93$

$100 - 8 = 92$

$100 - 6 = 94$

$100 - 17 =$

$100 - 24 =$

$100 - 29 =$

$100 - 56 =$

$100 - 78 =$

$100 - 93 =$

| → $100 - 4 = 96$

$100 - 3 = 97$

✓ $100 - 6 = 94$

✓ $100 - 7 = 93$

✓ $100 - 9 = 91$

✓ $100 - 1 = 99$

$$\checkmark \rightarrow 100 - 23 =$$

$$100 - 17 =$$

$$100 - 38 =$$

$$100 - 42 =$$

$$100 - 56 =$$

$$100 - 71 =$$

$$100 - 64 =$$

$$100 - 89 =$$

$$\text{■} \rightarrow 100 - 10 =$$

$$100 - 20 =$$

$$100 - 30 =$$

$$100 - 70 =$$

$$100 - 90 =$$

$$100 - 80 =$$

$$100 - 17 = (90 - 7) = 83$$

$$100 - 23 = 80 - 3 = 77$$

$$100 - 37 = 70 - 7 = 63$$

$$\checkmark 100 - 46 = 60 - 6 = 54$$

$$\checkmark 100 - 58 = 50 - 8 = 42$$

$$\checkmark 100 - 61 = 40 - 1 = 39$$

$$\checkmark 100 - 74 = 30 - 4 = 26$$

$$\text{■} \rightarrow \checkmark 100 - 79 =$$

$$\checkmark 100 - 84 =$$

$$\checkmark 100 - 12 =$$

$$\checkmark 100 - 37 =$$

$$\checkmark 100 - 17 =$$

$$\checkmark 100 - 26 =$$

$$103 - 7 =$$

$$\checkmark \text{1st } 103 - 7 = 100 - 4 = 96$$

$$\checkmark \text{2nd } 103 - 7 = 106 - 10$$

$$= 96$$

$$\checkmark \text{3rd } 103 - 7 = 96$$

[side working: 103 and 100 bracketed $\rightarrow +3$; 100 and 10 bracketed $\rightarrow 90$; 10 and 7 bracketed $\rightarrow 3$; total 96]

$$\checkmark \text{4th}$$

[column subtraction: 103 regrouped as 0 9 13, $- 7$, answer 96]

$$\rightarrow 105 - 2 = 103$$

[arrow from the 5 of 105 to the 2]

$$105 - 7 = 100 - 2 = 98$$

$$\rightarrow 123 - 57 = \underline{\quad}$$

Sol 1st

[column subtraction: 123 regrouped as 0 11 13, (-) 57, answer 66]

$$\text{2nd } 123 - 57 = 120 - 54$$

$$= 100 - 34$$

$$= 66$$

$$\text{3rd } 123 - 57 = 66$$

[side working: 123 and 100 bracketed $\rightarrow 23$; 100 and 57 bracketed $\rightarrow 43$; $23 + 43 = 66$]

$$\rightarrow 173 - 29 = \underline{\quad}$$

Sol 1st

[column subtraction: 173 with 7 crossed to 6 and 3 made 13, - 29, answer 144]

$$\text{2nd } 173 - 29 = 170 - 26$$

$$= 150 - 6$$

$$= 144$$

$$\text{3rd } 173 - 29 = 174 - 30 = 144$$

$$\rightarrow 170 - 80 = 100 - 10$$

$$= 90$$

$$\rightarrow 100 - 12 = 88$$

$$\rightarrow 100 - 73 = 27$$

$$\rightarrow 100 - 68 = 32 \checkmark$$

Sol

[column subtraction: 100 regrouped with 9 10 above, (-) 68, answer 32]

$$100 - 68$$

$$= 40 - 8$$

$$= 32$$

$$\rightarrow 170 - 17 =$$

$$\rightarrow 180 - 18 =$$

$$\begin{aligned} &\rightarrow 190 - 19 \\ &= 160 - 16 \\ &= \end{aligned}$$

$$\begin{aligned} &\rightarrow 150 - 15 \\ &= \end{aligned}$$

double + double

$$\rightarrow \checkmark 10 + 20 =$$

$$30 + 50 =$$

$$40 + 70 =$$

$$50 + 60 =$$

$$60 + 80 =$$

$$70 + 80 =$$

$$10 + 27 =$$

$$20 + 46 =$$

$$30 + 57 =$$

$$40 + 83 =$$

$$50 + 94 =$$

$$60 + 81 =$$

$$22 + 33 =$$

$$36 + 43 =$$

$$42 + 53 =$$

$$53 + 76 =$$

$$61 + 72 =$$

$$81 + 98 =$$

[tens digits underlined and arcs joining the units digits in each sum]

$$\rightarrow 26 + 32 =$$

$$41 + 58 =$$

$$36 + 72 =$$

$$98 + 91 =$$

$$83 + 76 =$$

$$54 + 23 =$$

$$43 + 24 =$$

[tens digits underlined and arcs joining the units digits in the lower sums]

$$13 + 52 =$$

$$23 + 51 =$$

$$37 + 32 =$$

$$43 + 34 =$$

$$56 + 43 =$$

$$61 + 32 =$$

$$93 + 94 =$$

Tables: (3, 4, 6) →

| → **20 + 50 =**

$$20 + 52 =$$

$$23 + 54 =$$

$$30 + 80 =$$

$$30 + 85 =$$

$$32 + 86 =$$

$$50 + 70 =$$

$$50 + 38 =$$

$$60 + 57 =$$

$$80 + 93 =$$

$$62 + 53 =$$

$$70 + 85 =$$

$$53 + 46 =$$

$$90 + 58 =$$

$$60 + 48 =$$

$$63 + 74 =$$

$$37 + 42 =$$

$$46 + 32 =$$

$$58 + 21 =$$

Tables (4, 5, 8)

Divisions

| → **100 ÷ 2 =**

Sol

[long division: 2) 100 (50; (-) 10, bring down → 00; 0; remainder (0) circled]

$$2 \times 0 = 0$$

$$2 \times 1 = 2$$

$$2 \times 2 = 4$$

$$2 \times 3 = 6$$

$$2 \times 4 = 8$$

$$2 \times (5) = 10$$

→ $123 \div 3 = 41$

Sol

[long division: 3) 123 (41; (-) 12, bring down → 03; (-) 3; remainder (0) circled]

$$3 \times (1) = 3$$

$$3 \times 2 = 6$$

$$3 \times 3 = 9$$

$$3 \times (4) = 12$$

→ $3408 \div 4 = \underline{\quad}$

Sol

$$4 \) \ 3408 \ (\ 852$$

$$(-) \ 32$$

$$20$$

$$(-) \ 20$$

$$08$$

$$(-) \ 8$$

$$(0)$$

[arrows show each digit brought down]

$$4 \times 1 = 4$$

$$4 \times (2) = 8 \checkmark$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times (5) = 20 \checkmark$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times (8) = 32 \checkmark$$

$$4 \times 9 = 36$$

→ $1230524 \div 2 = 615262$

Sol

$$2 \) \ 1230524 \ (\ 615262$$

$$(-) \ 12$$

$$03$$

$$(-) \ 2$$

$$10$$

$$(-) \ 10$$

05

(-) 4

12

(-) 12

04

4

(0)

[arrows show each digit brought down]

$$\rightarrow 4120105 \div 5 = 824021$$

Sol

5) 4120105 (824021

(-) 40

12

(-) 10

20

(-) 20

010

10

05

5

(0)

*[arrows show each digit brought down]***Ans** 824021**Ans** 824021

$$\rightarrow 7700 \div 4 =$$

Sol

4) 7700 (1925

(-) 4

37

(-) 36

10

(-) 8

20

(-) 20

(0)

[arrows show each digit brought down]

Ans 1925

$4 \times (1) = 4 \checkmark$

$4 \times (2) = 8 \checkmark$

$4 \times 3 = 12$

$4 \times 4 = 16$

$4 \times (5) = 20 \checkmark$

$4 \times 6 = 24$

$4 \times 7 = 28$

$4 \times 8 = 32$

$4 \times (9) = 36 \checkmark$

$4 \times 10 = 40$

$\begin{array}{r} 1925 \\ 4 \overline{) 7700} \end{array} \rightarrow 1224 \div 6 = \underline{\quad}$

Sol

$6 \overline{) 1224} \begin{array}{r} 204 \\ (-) 12 \\ \hline 024 \end{array}$

$(-) 12$

024

$(-) 24$

(0)

Ans 204

$6 \times 2 = 12$

$\begin{array}{r} 204 \\ 6 \overline{) 1224} \end{array} \rightarrow 210012 \div 6 =$

Sol

$6 \overline{) 210012} \begin{array}{r} 35002 \\ (-) 18 \\ \hline 30 \end{array}$

$(-) 18$

30

$(-) 30$

0012

$(-) 12$

(0)

[arrows show each digit brought down]

$(350) \text{ X } \text{[crossed out]}$

$(25012) \text{ X }$

$6 \times 1 = 6$

$6 \times 2 = 12$

$6 \times (3) = 18 \checkmark$

$6 \times 4 = 24$

$$6 \times 5 = 30$$

→ $101010 \div 2$

Sol

$$2 \overline{) 101010} \begin{array}{r} 50505 \end{array}$$

$$(-) 10$$

$$010$$

$$(-) 10$$

$$010$$

$$(-) 10$$

$$(0)$$

→ $52001054 \div 2 = \underline{\hspace{2cm}}$

Sol

$$2 \overline{) 52001054} \begin{array}{r} 26000527 \end{array}$$

$$(-) 4$$

$$12$$

$$(-) 12$$

$$00010$$

$$(-) 10$$

$$05$$

$$(-) 4$$

$$14$$

$$14$$

$$(0)$$

[arrows show each digit brought down]

Ans 2600052

$$(26000527) \checkmark$$

H.W

① $4120105 \div 5$

② $180 \div 12$

③ $8114 \div 11$

→ $5305 \div 5 =$

Sol

$$5 \overline{) 5305} \begin{array}{r} 1061 \end{array}$$

$$(-) 5$$

$$030$$

(-) 30

05

5

(0)

[arrows show each digit brought down]

→ $200 \div 2$

Sol

2) 200 (100

(-) 2

000

0

(0)

→ $\frac{4}{2} = 2$

→ $\frac{6}{2} = 3$

→ $\frac{8}{2} = 4$ *[8 and 2 crossed out, 4 written above]*

[2) 6 (3, 6, remainder (0)]

→ $\frac{10}{2} = 5$ *[crossed out, 5 written above]*

→ $\frac{12}{2} = 6$ *[crossed out, 6 written above]*

HW

→ ① $502 \div 2$

→ ② $303 \div 3$

③ $123 \div 3$

④ $5205 \div 5$

⑤ $13248 \div 2$