



YEAR 6

Copy Masters

Digit value					
Place value					
Actual value					
In sum form					

Digit value					
Place value					
Actual value					
In sum form					

249 358

Digit value	2	4				
Place value		TTh				
Actual value						
In sum form						

LP 1/4

£38 406.52

Digit value	3	8					
Place value	TTh						
Actual value							
In sum form							

LP 1/7

	HTh	TTh	Th	H	T	U
i)						
ii)						
iii)						
iv)						

- a) 1002 m 20 cm
- b) 47 litres 83 cl
- c) 50 kg 430 g
- d) £602 75 p
- e) 16 km 39 m

Th	H	T	U	t	h	th

m

litres

kg

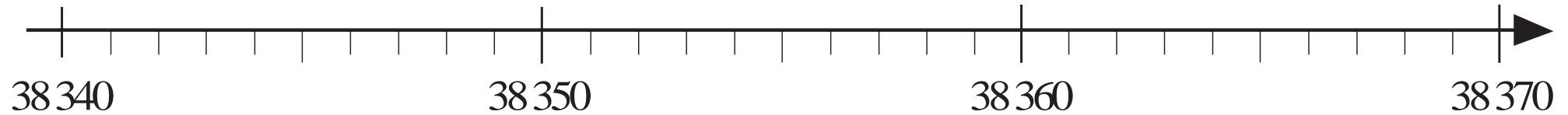
£

km

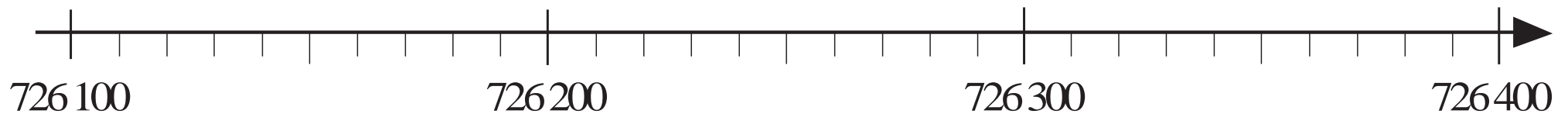
0.01 $\frac{1}{1000}$ 0.001 0.0001 $\frac{1}{10}$ $\frac{1}{100}$ 0.1 $\frac{1}{10\ 000}$

LP 2/3

a)

38 347
38 342
38 355
38 350
38 369


b)

726 250
726 190
726 340
726 225
726 305


LP 2/4

Next smaller hundred	Number	Next greater hundred
26 400	26 482	\approx 26 500
	604 719	
	140 348	
	1 215 750	
	499 499	
	812 500	

a)

Round to the nearest 10 units:

$$£78\ 326 \approx £ \boxed{}$$

$$10\ 508.4\ \text{m} \approx \boxed{}\ \text{m}$$

$$2065\ \text{l}\ 51\ \text{cl} \approx \boxed{}\ \text{l}$$

$$429\ \text{km}\ 350\ \text{m} \approx \boxed{}\ \text{km}$$

b)

Round to the nearest unit:

$$£6710\ 65\ \text{p} \approx £ \boxed{}$$

$$2356\ \text{m}\ 48\ \text{cm} \approx \boxed{}\ \text{m}$$

$$41.3\ \text{litres} \approx \boxed{}\ \text{l}$$

$$18.38\ \text{kg} \approx \boxed{}\ \text{kg}$$

c) Round to the nearest tenth of a unit:

$$£580.27 \approx £ \boxed{}$$

$$120.55\ \text{m} \approx \boxed{}\ \text{m}$$

$$66\ \text{litres}\ 99\ \text{cl} \approx \boxed{}\ \text{l}$$

$$46\ \text{kg}\ 87\ \text{g} \approx \boxed{}\ \text{kg}$$

a) 237

HTh	TTh	Th	H	T	U	t	h
			2	3	7		

$$1 \times 237 = 237$$

$$10 \times 237 =$$

$$100 \times 237 =$$

$$1000 \times 237 =$$

b) 65.2

HTh	TTh	Th	H	T	U	t	h

$$1 \times 65.2 =$$

$$10 \times 65.2 =$$

$$100 \times 65.2 =$$

$$1000 \times 65.2 =$$

c) 8.14

HTh	TTh	Th	H	T	U	t	h

$$1 \times 8.14 =$$

$$10 \times 8.14 =$$

$$100 \times 8.14 =$$

$$1000 \times 8.14 =$$

a)

HTh	TTh	Th	H	T	U	t	h	th
1	4	3	0	0	0			

$$143\ 000 \div 1 =$$

$$143\ 000 \div 10 =$$

$$143\ 000 \div 100 =$$

$$143\ 000 \div 1000 =$$

b)

HTh	TTh	Th	H	T	U	t	h	th

$$4510 \div 1 =$$

$$4510 \div 10 =$$

$$4510 \div 100 =$$

$$4510 \div 1000 =$$

c)

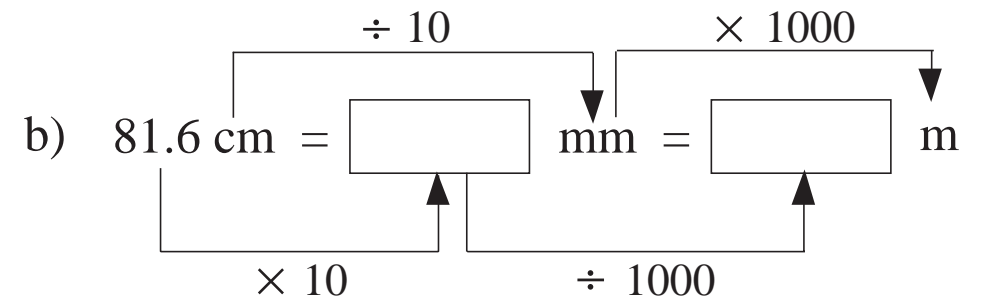
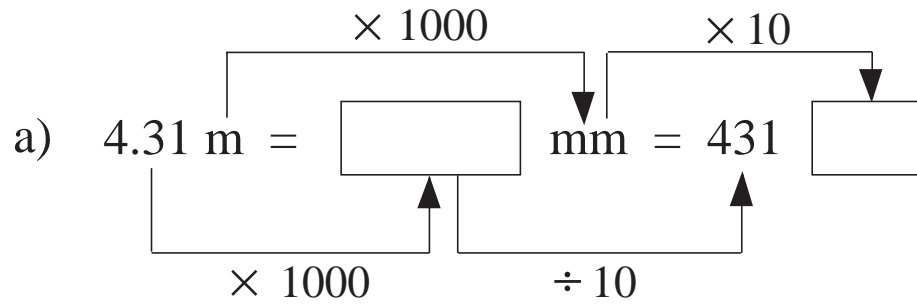
HTh	TTh	Th	H	T	U	t	h	th

$$726 \div 1 =$$

$$726 \div 10 =$$

$$726 \div 100 =$$

$$726 \div 1000 =$$



c) $2.945 \text{ litres} = \boxed{} \text{ cl} = 2945 \boxed{}$

d) $72.8 \text{ ml} = \boxed{} \text{ cl} = 0.0728 \boxed{}$

e) $5.26 \text{ kg} = \boxed{} \text{ g}$

f) $12\,406 \text{ g} = 12.406 \boxed{}$

$$\text{a) } 60\,419 + 897 = 60\,416 + \boxed{} = \boxed{}$$

$$\text{b) } 5643 + 489 = 5643 + 500 - \boxed{} = \boxed{}$$

$$\text{c) } 12\,345 - 678 = 12\,367 - \boxed{} = \boxed{}$$

$$\text{d) } 9636 - 3482 = 9636 - 3000 - 500 + \boxed{} = \boxed{}$$

$$\text{e) } 41.3 - 12.4 = 41.3 - 12 - \boxed{} = \boxed{}$$

a) $628 \times 20 = 6280 \times \square = \square$

b) $135 \times 18 = 135 \times 2 \times 3 \times \square = \square$

c) $135 \times 18 = 135 \times 20 - \square = \square$

d) $43 \times 51 = 43 \times 50 + \square = \square$

e) $305 \times 14 = 305 \times 10 + 305 \times \square = \square$

f) $15.2 \div 25 = 15.2 \times 100 \div 2 \div \square = \square$

g) $252 \div 6 = 252 \div 2 \div \square = \square$

a) $2087 - 1022 =$

b) $249 + 63 + 151 + 27 =$

c) $13 \times 4 \times 25 =$

d) $1063 \times 29 \times 0 =$

e) $8.2 \times 13 =$

f) $3740 \times 170 =$

g) $998 \times 35 =$

h) $28\,500 \div 25 \div 4 =$

3 kg $\frac{3}{1000}$ tonne $\frac{3}{10}$ litre 3 g 0.3 m $\frac{3}{100}$ litre
 0.003 kg 0.03 m $\frac{3}{10\ 000}$ km 30 mm 30 cl 30 ml

LP 5/2

a) to the nearest 10 units: £503 455 7459.8 m 300 005 g 15 litres 46 cl 83 104.55 km	b) to the nearest unit: £611 32 p 88 cm 6.9 mm 4 205.29 kg 1453.51 litres 83 104 km 52 m	c) to the nearest 10th: £1011 54 p 1766.21 cm 4 205.29 kg 1994.06 ml 7 477.47 km
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LP 5/3

Unit $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$

Ten $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$

Hundred $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$

Thousand $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$

Ten Thousand $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$ $\xrightarrow{\times 10}$

a) $7 \times \underline{\quad} = 56$, $7 \times \underline{\quad} = 5600$, $\underline{\quad} \times 7 = 5.6$, $70 \times \underline{\quad} = 5600$

b) $\underline{\quad} \times 5 = 750$, $5 \times \underline{\quad} = 75$, $50 \times \underline{\quad} = 750$, $50 \times \underline{\quad} = 75$

c) $60 \times \underline{\quad} = 420$, $\underline{\quad} \times 60 = 4200$, $600 \times \underline{\quad} = 4200$, $60 \times \underline{\quad} = 42$

d) $\underline{\quad} \times 4 = 500$, $\underline{\quad} \times 40 = 5000$, $\underline{\quad} \times 40 = 50\,000$, $40 \times \underline{\quad} = 500$

e) $4 \times \underline{\quad} = 100$, $4 \times \underline{\quad} = 1000$, $\underline{\quad} \times 40 = 1000$, $\underline{\quad} \times 40 = 100$

f) $\underline{\quad} \times 15 = 120$, $\underline{\quad} \times 150 = 1200$, $15 \times \underline{\quad} = 1200$, $\underline{\quad} \times 150 = 120$

a) i) $64\,025 \div 2 =$

ii) $64\,025 \div 30\,000 =$

b) i) $1\,020\,000 \div 20\,000 =$

ii) $1\,020\,000 \div 4 =$

c) i) $56\,000 \div 700 =$

ii) $56\,000 \div 800 =$

d) i) $710\,608 \div 100 =$

ii) $710\,608 \div 1 =$

e) i) $3240 \div 324 =$

ii) $3240 \div 0 =$

a) $260 + 30 =$

$5260 + 30 =$

$5260 + 430 =$

$2600 + 300 =$

$52600 + 300 =$

$52600 + 4300 =$

$26\ 000 + 3000 =$

$526\ 000 + 3000 =$

$526\ 000 + 43\ 000 =$

b) $320 - 170 =$

$625 - 170 =$

$57 - 37 =$

$3200 - 1700 =$

$6250 - 1700 =$

$585 - 385 =$

$2\ 000 - 17\ 000 =$

$62\ 500 - 17\ 000 =$

$5899 - 3899 =$

c) $300 \times 8 =$

$26 \times 4 =$

$43 \times 7 =$

$300 \times 80 =$

$2600 \times 4 =$

$430 \times 70 =$

$300 \times 8000 =$

$260 \times 4000 =$

$4300 \times 700 =$

d) $60 \div 12 =$

$420 \div 7 =$

$8 \div 20 =$

$600 \div 12 =$

$4200 \div 70 =$

$7800 \div 200 =$

$60\ 000 \div 12 =$

$420\ 000 \div 7000 =$

$78\ 000 \div 20\ 000 =$

a) $368 + 152 = 152 + 368$

$7230 - 430 = 430 - 7230$

b) $1230 \times 21 = 21 \times 1230$

$460 \div 23 = 23 \div 460$

c) $290 - 0 = 0 - 290$

$1 \times 167 = 167 \times 1$

$0 \times 8 = 8 \times 0$

$0 \div 63 = 63 \div 0$

d) $(82 + 38) + 15 = 82 + (38 + 15)$

$(670 + 130) - 100 = 670 + (130 - 100)$

$(400 - 250) + 50 = 400 - (250 + 50)$

$(360 - 160) - 30 = 360 - (160 - 30)$

$400 - (250 + 50) = 400 - 250 - 50$

$360 - (160 - 30) = 360 - 160 + 30$

e) $(18 \times 2) \times 4 = 18 \times (2 \times 4)$

$(18 \times 4) \div 2 = 18 \times (4 \div 2)$

$(60 \div 3) \times 5 = 60 \div (3 \times 5)$

$(80 \div 4) \div 2 = 80 \div (4 \div 2)$

$60 \div (3 \div 5) = 60 \div 3 \div 5$

$80 \div (4 \div 2) = 80 \div 4 \div 2$

f) $7 \times (15 + 25) = 7 \times 15 + 7 \times 25$

$7 + (15 \times 25) = (7 + 15) \times (7 + 25)$

a) $16 \times (26 + 30) =$

c) $(156 + 44) \times 5 =$

e) $(78 + 96) \div 6 =$

g) $750 \div (10 + 15) =$

i) $(430 + 220) \div 1 =$

k) $(365 - 165) \div 1 =$

m) $(147 - 147) \div 29 =$

o) $4 \times (12 \times 25) =$

q) $350 \div (14 \times 5) =$

s) $9 \times (0 \div 3) =$

b) $37 \times (200 - 100) =$

d) $(200 - 20) \times 45 =$

f) $(160 - 75) \div 5 =$

h) $144 \div (72 - 48) =$

j) $(220 + 430) \div 0 =$

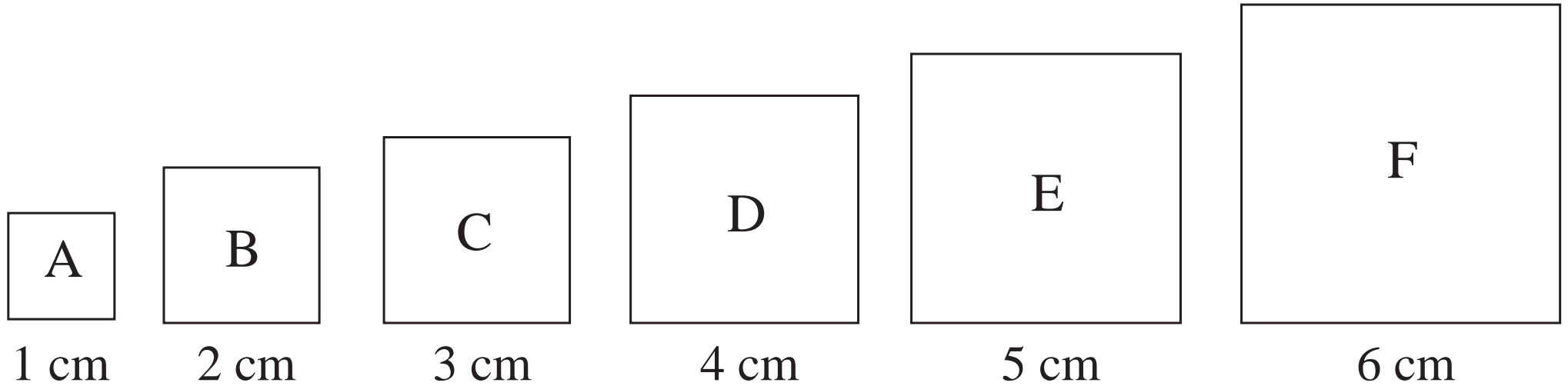
l) $(493 - 203) \div 0 =$

n) $300 \div (15 - 15) =$

p) $8 \times (45 \div 5) =$

r) $600 \div (60 \div 4) =$

t) $45 \times (9 \div 0) =$



Area of:

A: $\text{cm}^2 =$ mm^2

B: $\text{cm}^2 =$ mm^2

C: $\text{cm}^2 =$ mm^2

D: $\text{cm}^2 =$ mm^2

E: $\text{cm}^2 =$ mm^2

F: $\text{cm}^2 =$ mm^2

Tommy's method

$a = 15 \text{ m}, b = 57 \text{ m}$

15	57
7	114
3	228
1	456
$A =$	855 m^2

$a = 17 \text{ m}, b = 57 \text{ m}$

17	57
8	114
4	228
2	456
1	912
$A =$	969 m^2

$a = 19 \text{ m}, b = 57 \text{ m}$

19	57
9	114
4	228
2	456
1	912
$A =$	1083 m^2

$a = 16 \text{ m}, b = 57 \text{ m}$

$A =$	

$a = 18, b = 57 \text{ m}$

$A =$	

$a = 20 \text{ m}, b = 57 \text{ m}$

$A =$	

a) $410.5 + 410.5 + 410.5 + 410.5 =$

b) $7063.6 - 20.4 - 30.2 =$

c) $160 \div 100 \times 5 =$

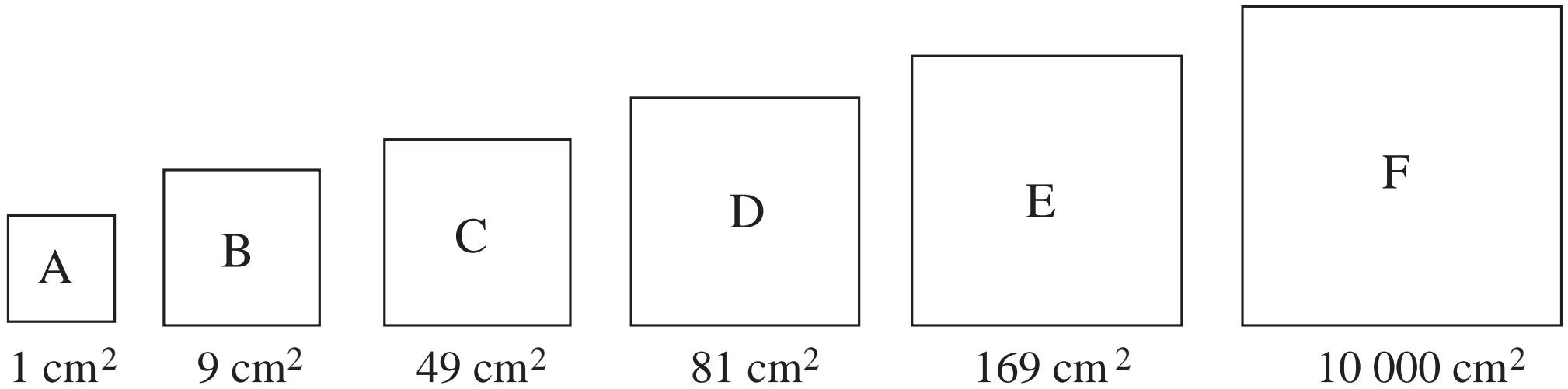
d) $12 \times 12 + 2 \times 10 \times 10 =$

e) $5 \times (32 + 110) \div 5 =$

f) $761 \times 100 \div 5 \div 2 =$

g) $7867 + 435 - 128 - 207 =$

h) $200.6 - 33.2 \times 3 + 899 =$



A: $P =$ cm

B: $P =$ cm

C: $P =$ cm

D: $P =$ cm

E: $P =$ cm

F: $P =$ cm

a)

	7	2	4	8
+	8	7	1	7

i) $7348 + 8717 =$

iv) $7248 + 9717 =$

ii) $7348 + 8617 =$

v) $6248 + 9717 =$

iii) $7278 + 8747 =$

vi) $7240 + 8725 =$

b)

	4	3	7	2
-	1	8	3	7

i) $4370 - 1837 =$

iv) $4382 - 1837 =$

ii) $4372 - 837 =$

v) $4372 - 2837 =$

iii) $4272 - 1737 =$

vi) $4472 - 1737 =$

LP 11/2

a)

	4	2	9
		×	4

	3	6	0
		×	6

	4	5	3
		×	7

	6	0	6
		×	5

	9	3	6
		×	9

b)

	6	0	3	8
			×	3

	6	0	3	8
			×	3

	3	8	0	4
			×	8

			3	8	0	4
			×	8	0	0

LP 11/5

a)

	3	6	4	2
−	2	2	3	8

<

−	4	3	5	2

<

	3	9	8	5
−	2	5	7	9

b)

	8	8	8	8
+	3	3	3	3

<

	5	5	5	5
+				

<

	9	9	9	9
+	2	2	2	4

c)

	1	0	0	0	0
−		9	9	9	

<

	2	0	0	0	1
−					

<

	1	1	1	1	1
−	2	1	0	8	

a) $3265 \times 3 \approx \boxed{} \times 3 = \boxed{}$

Th	H	T	U
3	2	6	5
$\times 3$			

units
tens
hundreds
thousands

or

Th	H	T	U
3	2	6	5
$\times 3$			

+

or

Th	H	T	U
3	2	6	5
$\times 3$			

or

3	2	6	5
$\times 3$			

b) $8903 \times 6 \approx$
 $=$

	8	9	0	3
$\times 6$				

c) $8903 \times 600 \approx$
 $=$

			8	9	0	3
$\times 600$						

d)

	5	4	7	3
			$\times 7$	

e)

	9	3	0	8
			$\times 9$	

f)

		9	3	0	8
			$\times 9$	0	

a)

	3	8
×	1	2
<hr/>		

b)

		4	0	6
		×	3	6
<hr/>				

c)

		2	4	0
		×	5	1
<hr/>				

d)

		8	5	6
		×	2	7
<hr/>				

e)

		7	6	5
		×	1	7
<hr/>				

f)

		7	6	5
		×	7	1
<hr/>				

g)

		3	8	2
		×	1	1
<hr/>				

h)

		4	7	5	
		×	1	0	6
<hr/>					

a)

	4	_	_	4
+	_	7	7	_
1	2	2	2	1

b)

	8	_	_	5
-	_	3	2	_
4	4	4	4	

LP 12/2

a)

	_	7	6	_
+	3	_	_	6
1	2	2	2	1

b)

	_	7	_	3
+	2	_	6	_
1	2	2	2	1

c)

	_	7	7	_
-	3	_	_	3
4	4	4	4	

d)

	_	_	8	0
-	2	5	_	_
5	5	5	5	

LP 12/3

a)

		4	2	—
		×	5	2
2	1	2	0	—
—	—	—	—	—

b)

	3	6	7
	×	2	—
	3	—	—
—	—	—	—
—	—	—	—

c)

		8	2	—
		×	3	2
—	—	—	—	—
—	—	—	—	—
—	—	—	4	—

a)

	5	2	9	1				
					x	2	1	
<hr/>								

b)

	5	2	9	1				
					x	4	2	
<hr/>								

c)

	5	2	9	1				
					x	1	0	5
<hr/>								

d)

	5	2	9	1				
					x	1	8	9
<hr/>								

e)

	1	2	3	4	5	6	7	9	x	9
<hr/>										

a)

5	7	9	3	8

b)

6	3	9	4	6

c)

9	8	1	0	6

LP 12/7

a)

2	5	7	3	8	2

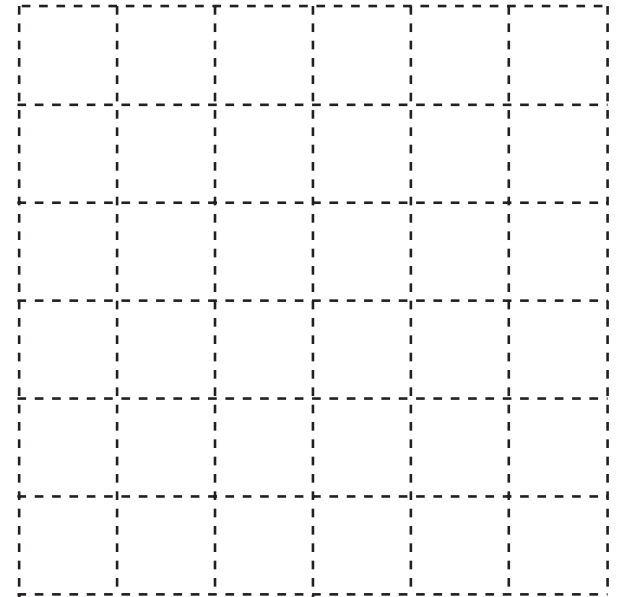
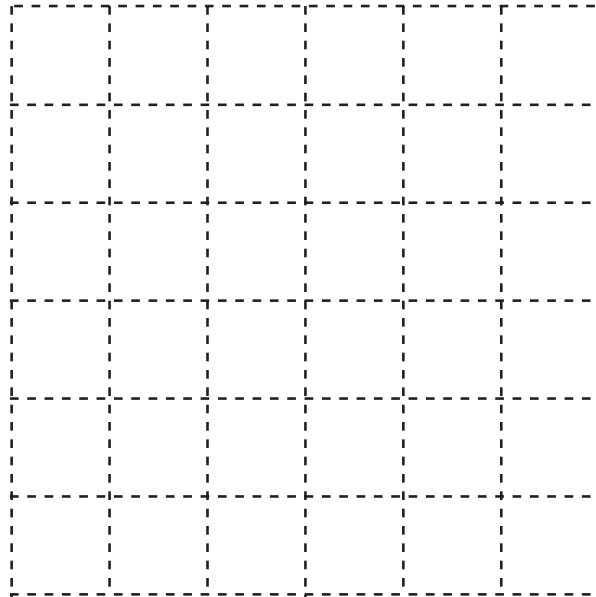
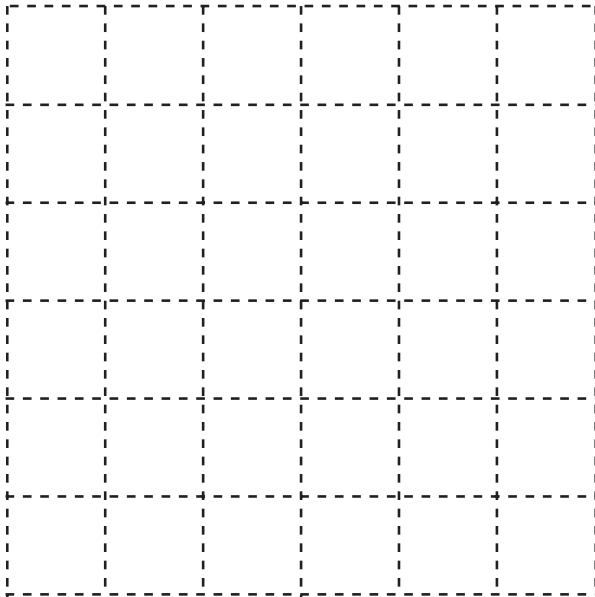
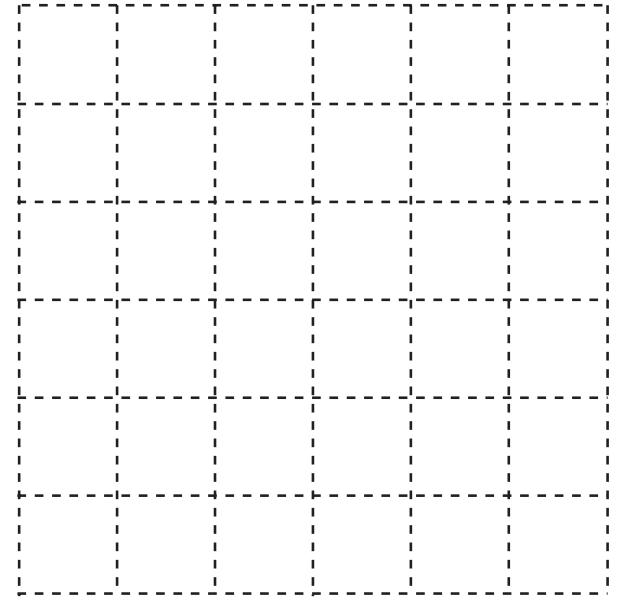
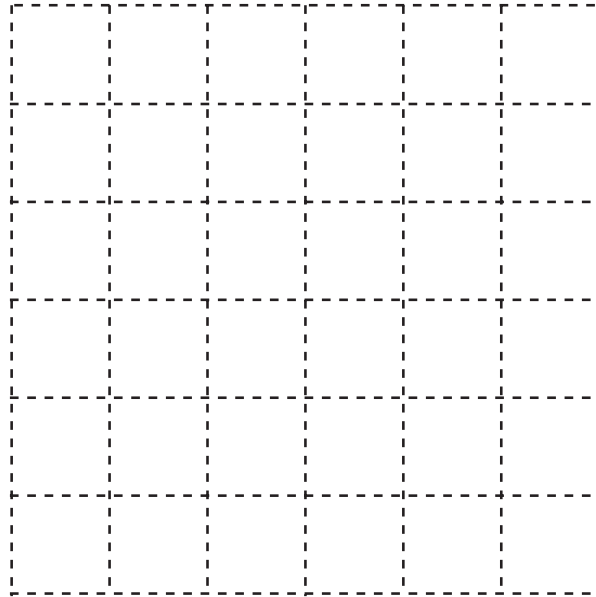
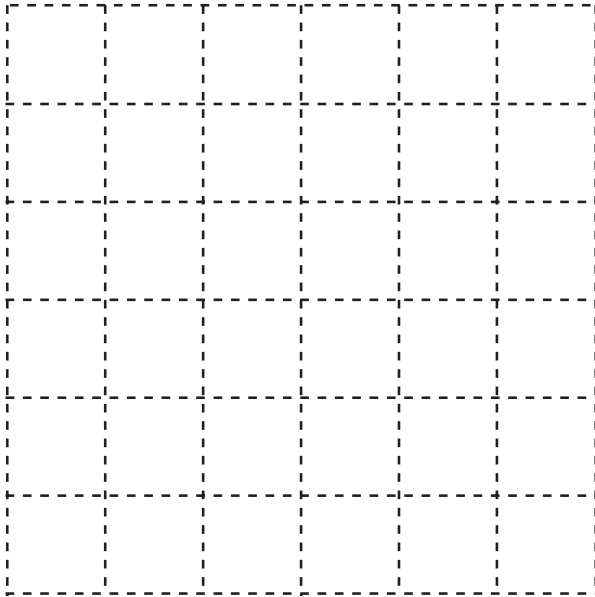
b)

2	9	9	6	9	6

c)

7	5	3	0	9	1

LP 12/8



- a) Peter is 16 years old but his savings are just one fifteenth of the savings of his sister who is 5 years younger than he is.
How much has Peter saved if his sister has saved £7500?
- b) In London, 15 mm of rain fell at 3 am. At 1800 hours, there was another downpour.
How much rain fell then?
- c) Cindy is 5 years old and weighs 24 kg.
Her grandfather is 13 times older.
How old is Cindy's grandfather and how much does he weigh?

- a) Christopher bought a painting for £2600. Then he sold it 3 weeks later for £2800.

After another 2 weeks, he changed his mind and bought the painting back for £3100.

After 1 week, he sold the painting again for £3200.

Did he make a profit or a loss on the painting and how much was it?

- b) A box 15 cm deep holds 13 kg of tomatoes and a box 20 cm deep holds 17 kg of tomatoes.

What is the total price of all the tomatoes in the 2 boxes if 1 kg of tomatoes costs £2.25?

- c) Kate made some jam from 25 kg of apricots and 7 kg of sugar. She lost 8 kg of fruit through boiling and then sieving to remove the stones and skin.

How much did it cost to make 1 kg of jam if 1 kg of apricots cost £1.28, 1 kg of sugar cost £1.10, and other costs (covers and labels) were £1.25?

- d) A shopkeeper bought 120 kg of potatoes from one farmer for 76 p per kg and 59 kg from another farmer for 69 p per kg.

He then sold all the potatoes at the same price so that he made a profit of 16 p per kg.

At what price did he sell the potatoes?



a)

	5	1	7	3
+	6	5	9	8

i) $5183 + 6599 =$
 ii) $5173 + 6498 =$
 iii) $15173 + 598 =$

iv) $5273 + 6698 =$
 v) $5173 + 6098 =$
 vi) $5186 + 6585 =$

b)

	7	4	0	5
-	2	8	6	6

i) $7405 - 2966 =$
 ii) $7505 - 2766 =$
 iii) $7410 - 2865 =$

iv) $7505 - 3066 =$
 v) $8405 - 1866 =$
 vi) $7495 - 2956 =$

LP 15/1

a)

	7		9	
+		6		5
	1	3	5	7
				9

b)

	2		7	3
-	4		6	
	1	2	4	3
				4

c)

	3	9		4
		×		
	8			0

d)

	1		5	3
	5		6	

LP 15/3

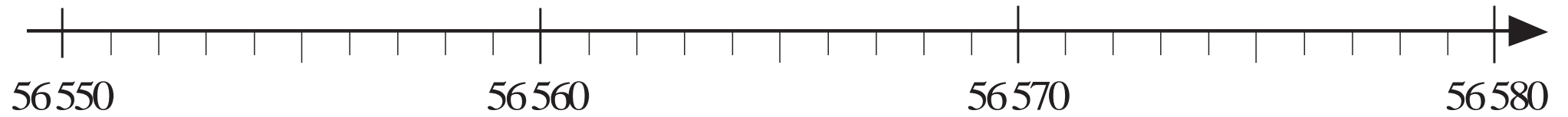
a)

$$23\,027 + 33\,527$$

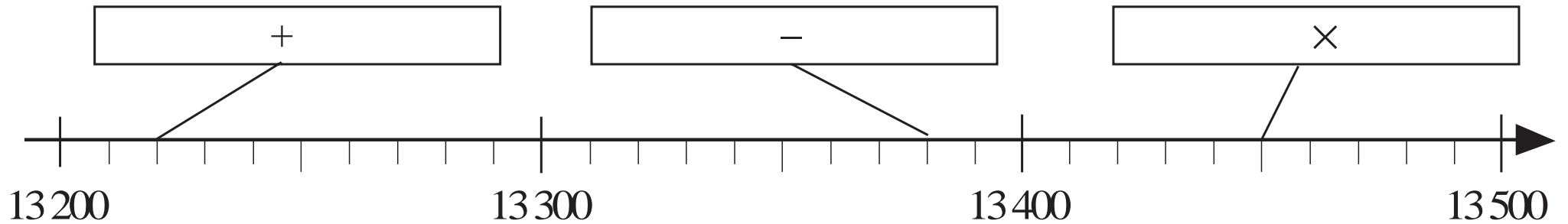
$$3535 \times 16$$

$$100\,000 - 43\,431$$

$$1697.31 \div 3 \times 100$$

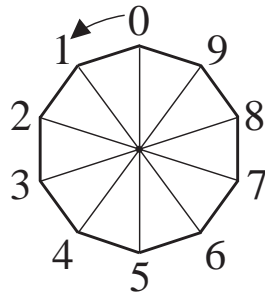
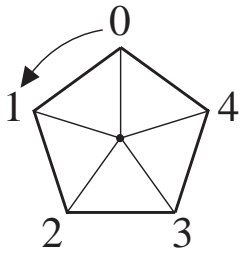


b)



$r = 0$	$r = 1$	$r = 2$	$r = 3$	$r = 4$	$r = 5$

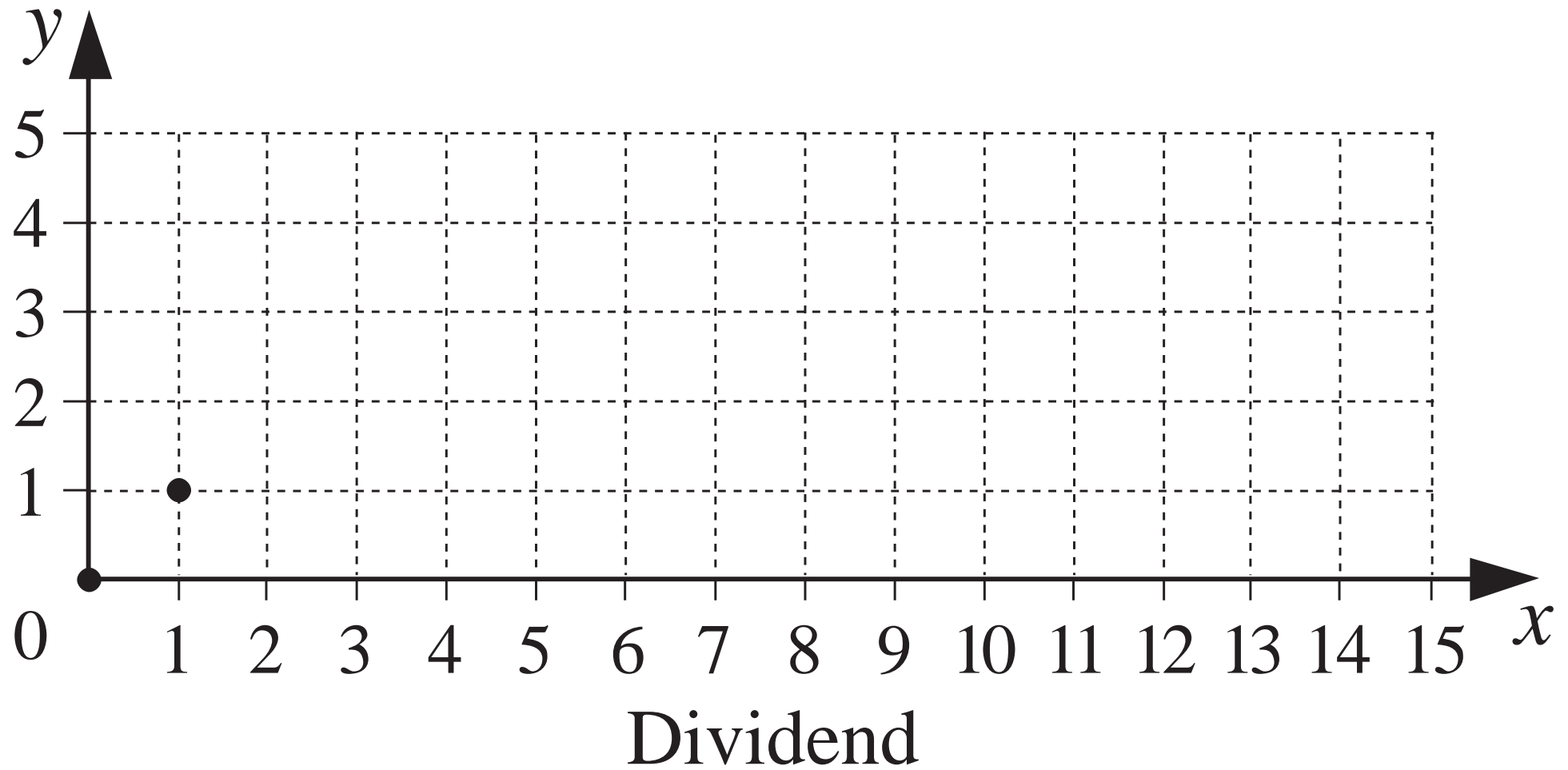
LP 16/2



Number		3	5	12	43	79	154	228	2430	2433	2436	2437	2435
Remainder after dividing by:	(2)												
	(5)												
	(10)												

LP 16/4

Remainder



i)

$$7 = 0 \times 10 + 7$$

$$33 = 3 \times 10 + 3$$

$$60 = \square \times 10 + \square$$

$$85 = \square \times 10 + \square$$

Divisible by
10, 2 and 5

ii)

$$704 = \square \times 10 + \square$$

$$4358 = \square \times 10 + \square$$

$$30\,521 = \square \times 10 + \square$$

$$285\,029 = \square \times 10 + \square$$

Divisible by
10, 2 and 5

We only need
to look at the
units digit.

LP 16/5

a)

$$7 = 0 \times 100 + 7$$

$$33 = 0 \times 100 + 33$$

$$200 = 2 \times 100 + 0$$

$$375 = \square \times 100 + \square$$

$$524 = \square \times 100 + \square$$

Divisible by
100, 4 and 25

b)

$$2176 = \square \times 100 + \square$$

$$7390 = \square \times 100 + \square$$

$$28\,408 = \square \times 100 + \square$$

$$11\,950 = \square \times 100 + \square$$

$$678\,462 = \square \times 100 + \square$$

Divisible by
100, 4 and 25

We only
need to
look at
the tens
and units
digits.

LP 16/6

a)

i) $1 = 0 + 1$

$10 = 9 + 1$

$100 = 99 + 1$

$1000 =$

$10\ 000 =$

...

$\underbrace{\hspace{10em}}$
 Divisible by
 9 and 3

ii) $2 = 0 \times 2 + 2$

$20 = 9 \times 2 + 2$

$200 = 99 \times 2 + 2$

$2000 =$

$20\ 000 =$

...

$\underbrace{\hspace{10em}}$
 Divisible by
 9 and 3

iii) $7 = 0 \times 7 + 7$

$70 = 9 \times 7 + 7$

$700 = 99 \times 7 + 7$

$7000 =$

$70\ 000 =$

...

$\underbrace{\hspace{10em}}$
 Divisible by
 9 and 3

- b)
- i) When 1000 is divided by 9 or by 3, the remainder is the same as when is divided by 9 or by .
- ii) When 200 is divided by or by 3, the remainder is the same as when is divided by or by 3.
- iii) When 70 000 is divided by 9 or by 3, the remainder is the same as when is divided by 9 or by 3.

a)

Number		8000	300	40	6	8346
Remainder after dividing by:	(9)					
	(3)					

b)

Number		70 000	4000	500	30	8	74 538
Remainder after dividing by:	(9)						
	(3)						

- a) When 7000 is divided by 9 or by 3, the is the same as when 7 is by 9 or by 3.
- b) When 400 is divided by or by 3, the remainder is the same as when is divided by 9 or by 3.
- c) When 50 is by 9 or by 3, the remainder is the same as when is divided by 9 or by 3.

- d) When 8 is divided by , the remainder is itself, but when 8 is divided by the is 2.
- e) When 7458 is divided by 9, the remainder is the same as when is divided by 9, so the remainder is .
- f) When 7458 is divided by 3, the is the same as when $7 + 4 + 5 + 8 = 24$ is divided by 3, so the remainder is .

$$10 \leq n \leq 30$$

Divisible by 3

Multiple of 2

$$10 \leq n \leq 30$$

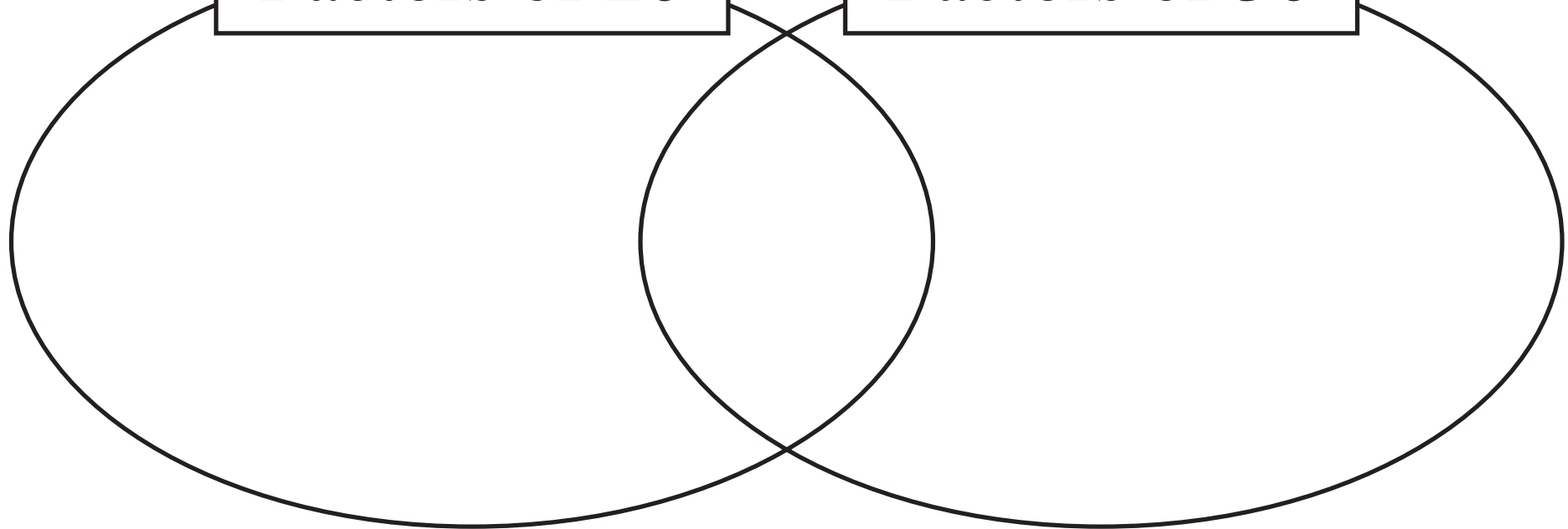
Divisible by 9

Divisible by 3

$$1 \leq n \leq 30$$

Factors of 20

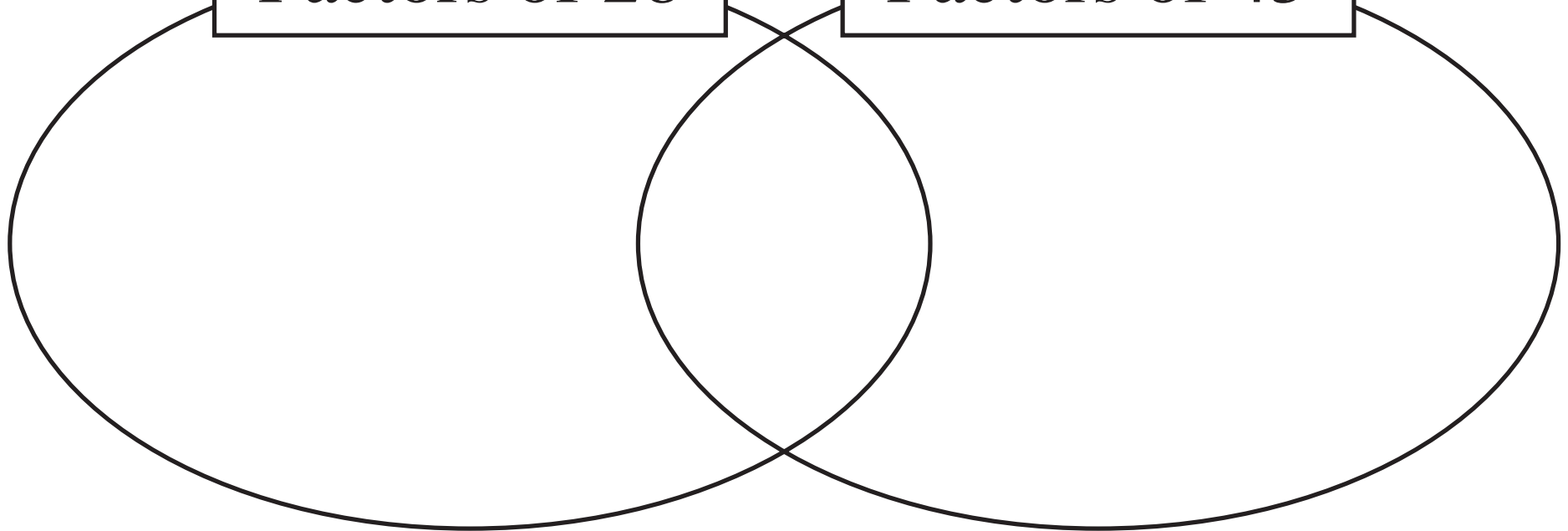
Factors of 30



$$1 \leq n \leq 45$$

Factors of 28

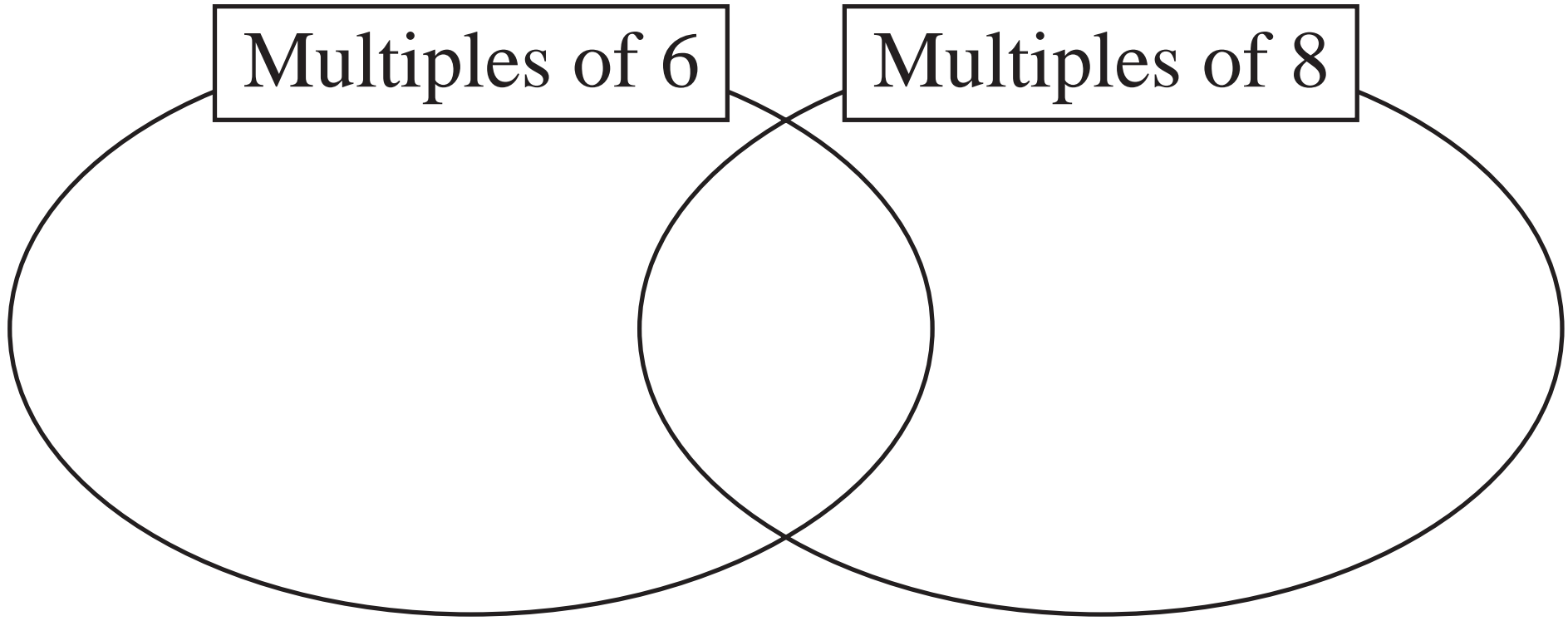
Factors of 45



$$0 \leq n \leq 72$$

Multiples of 6

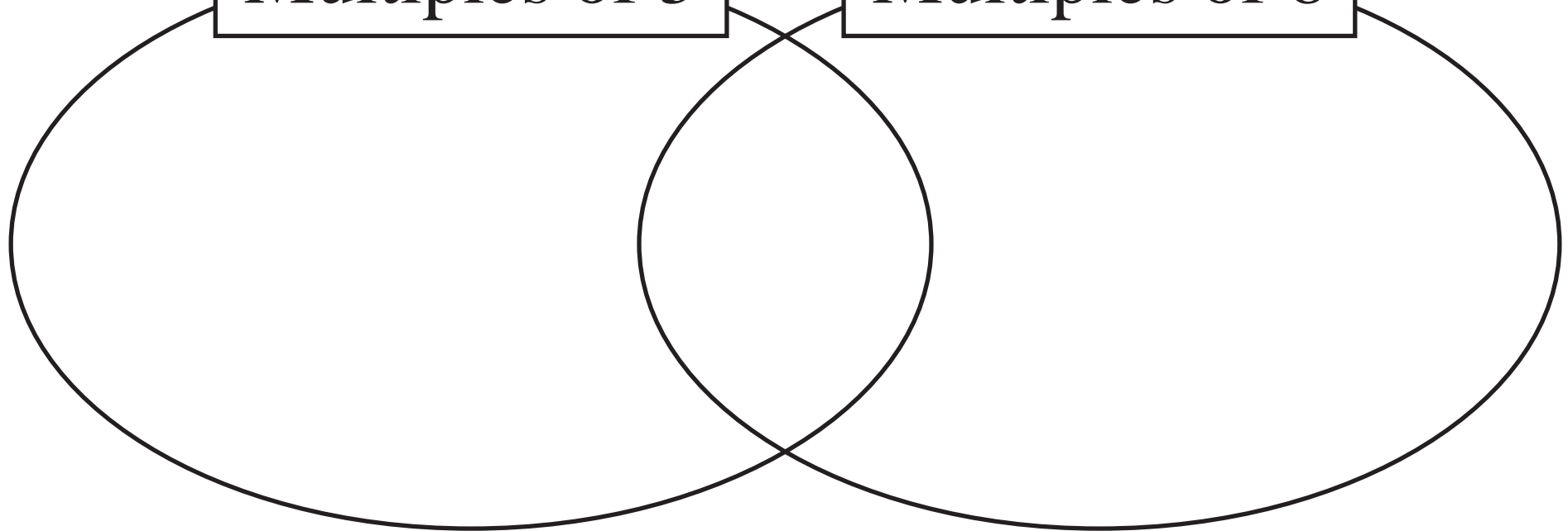
Multiples of 8



$$n \geq 0$$

Multiples of 5

Multiples of 8



$$1 \leq n \leq 40$$

(i)

Factors of 24

Factors of 40

(ii)

(iv)

(iii)

a)

	1	4	1	6	5	8
	3	3	7	9	0	2
	2	4	6	8	5	5
+	4	4	4	4	4	4
<hr/>						

b)

				3	8	1
	7	9	2	5	3	6
					4	5
	2	0	3	6	8	0
+			5	1	4	6
						0
<hr/>						

c)

	3	3	3	3	3	3	3
		3	3	3	3	3	3
			3	3	3	3	3
				3	3	3	3
+					3	3	3
<hr/>							

d)

	8	5	3	2	0	4
-	3	2	2	0	6	1
<hr/>						

e)

	6	5	7	4	3	9	4
-			7	6	0	2	8
<hr/>							

f)

	3	3	3	3	3	3	3
-		5	5	5	5	5	5
<hr/>							

a)

1	4	2	8	5	7
				×	6

b)

		2	5	6	3
			×	7	2

c)

			8	4	1
		×	3	0	1

d)

5	7	1	4	2	8	5

f)

7	3	1	0	0	0	1

e)

7	9	9	9	9	9	9

$$\begin{array}{r}
 \text{a)} \quad 652\,418 \text{ mm} \\
 1043\,706 \text{ mm} \\
 + \quad 93\,038 \text{ mm} \\
 \hline \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{b)} \quad 65\,241.8 \text{ cm} \\
 104\,370.6 \text{ cm} \\
 + \quad 9\,303.8 \text{ cm} \\
 \hline \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c)} \quad 652.418 \text{ m} \\
 1043.706 \text{ m} \\
 + \quad 93.038 \text{ m} \\
 \hline \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{d)} \quad 3405\,261 \text{ mm} \\
 - 1094\,283 \text{ mm} \\
 \hline \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{e)} \quad 340\,526.1 \text{ cm} \\
 - 109\,428.3 \text{ cm} \\
 \hline \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{f)} \quad 3405.261 \text{ m} \\
 - 1094.283 \text{ m} \\
 \hline \\
 \hline
 \end{array}$$

a)

$$\begin{array}{r}
 6\ 4\ 2\ 5\ \text{m} \\
 8\ 0\ 2\ 6\ 0\ 0\ \text{m} \\
 3\ 5\ 0\ 0\ 0\ \text{m} \\
 7\ 1\ 0\ \text{m} \\
 +\ 1\ 0\ 1\ 5\ \text{m} \\
 \hline
 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 6.425\ \text{km} \\
 \text{-----} \\
 \text{-----} \\
 \text{-----} \\
 \text{-----} \\
 + \\
 \text{-----} \\
 \hline
 \\
 \hline
 \end{array}$$

b)

$$\begin{array}{r}
 4\ 3\ 2\ 0\ 6\ 8\ \text{m} \\
 -\ 2\ 1\ 0\ 8\ 7\ 5\ \text{m} \\
 \hline
 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 432.068\ \text{km} \\
 - \\
 \text{-----} \\
 \hline
 \\
 \hline
 \end{array}$$

a)

	6	8	4	2	mm
			×	7	

	6	8	4	.2	cm
			×	7	

	6	.8	4	2	m
			×	7	

b)

					mm
6	5	0	9	4	

					cm
6	5	0	9	.4	

					m
6	5	.0	9	4	

LP 22/5

a)

						cm
1	3	3	9	3	2.5	

b)

						cl
8	6	4	4	5	4.8	

c)

						km
2	7	6	9	.1	4	

LP 22/7

a) 405.3 cm

	4	0	5	.	3
		×	2	3	
<hr/>					
<hr/>					

b) 6.4 km

		6	.	4
	×	1	0	5
<hr/>				
<hr/>				

c) 8.205 m

		8	.	2	0	5
		×	2	1	3	
<hr/>						
<hr/>						

LP 22/6

a) 254586 mm

2	5	4	5	8	6

b)

c)

LP 22/8

a)

	3	8	2	6
+	8	5	1	9

b)

	3	8	.	2	6
+	8	5	.	1	9

c)

	0	.	3	8	2	6
+	0	.	8	5	1	9

d)

	4	1	7	.	3	5	8
+			9	.	4	9	

e)

	6	0	8	.	7	
			5	.	4	2
+		9	4	.	3	

f)

		8	0	.	0	9
	2	5	6			
+			0	.	8	2

a)

	1	8	3	.	6
-	1	4	7	.	8

b)

	6	0	5	.	3	2
-		5	0	.	4	

c)

	8	2	5			
-	4	1	3	.	9	4

d)

	8	1	0	.	3	
-		3	9	.	2	8

e)

	2	5	.	3	0	4
-	2	4	.	3	3	

f)

	5	6	7	.	0	5
-	4	6	7	.	1	

a) $125 \times 8 =$

$12.5 \times 8 =$

$1.25 \times 8 =$

$0.125 \times 8 =$

b) $87 \times 52 =$

$8.7 \times 52 =$

$0.87 \times 52 =$

$0.087 \times 52 =$

c) $154 \times 16 =$

$15.4 \times 16 =$

$1.54 \times 16 =$

$0.154 \times 16 =$

d) $75 \div 3 =$

$7.5 \div 3 =$

$0.75 \div 3 =$

$0.075 \div 3 =$

e) $673 \div 5 =$

$67.3 \div 5 =$

$6.73 \div 5 =$

$0.673 \div 5 =$

f) $720 \div 12 =$

$72 \div 12 =$

$7.2 \div 12 =$

$0.72 \div 12 =$

a) $E:$

2	4	2	6	0	4	

b) $E:$

6	6	8	0	5	2	

c) $E:$

1	2	0	0	3		

a) $6.7 + 10.8 =$

$a + b = c, \quad a = \quad b =$

b) $8.25 - 4.6 =$

$a - b = c, \quad a = \quad b =$

c) $14.3 \times 5 =$

$a \times b = c, \quad a = \quad b =$

d) $42.6 \div 3 =$

$a \div b = c, \quad a = \quad b =$

a)

	2	5	4	8	6	4
	5	4	7	1	3	2
	3	8	9	5	9	7
+	4	6	3	9	0	8
<hr/>						

b)

			1	4	3	5
	8	9	7	2	5	5
				8	8	7
4	6	8	9	1	3	2
+		7	5	6	3	8
<hr/>						

c)

	5	5	5	5	5	5
		6	6	6	6	6
			5	5	5	5
				6	6	6
				0	5	5
+	<hr/>					

d)

	9	0	4	3	1	5
-	4	3	8	1	6	9
<hr/>						

e)

	1	0	9	7	0	2	4
-			8	9	7	6	5
<hr/>							

f)

	7	7	7	7	7	7
-		8	8	8	8	8
<hr/>						

a)

	3	7	5	0	7	2
					×	8
<hr/>						

b)

		3	4	0	7	6
				×	5	6
<hr/>						
<hr/>						

c)

		8	4	9	.	0	5
				×	7	5	
<hr/>							
<hr/>							

d)

7	8	8	8	8	8	8

e)

2	8	5	7	0	1	3	6
<hr/>							
<hr/>							
<hr/>							
<hr/>							
<hr/>							

f)

2	7	3	.	6	7	2
<hr/>						
<hr/>						
<hr/>						
<hr/>						

-2.5 12 -0.5 3.2 -4.3 7.5 -2 0.6 9



a) $(+ 11) + (- 7) =$

$(+1100) + (- 700) =$

$(+ 110) + (- 70) =$

$(+ 1.1) + (- 0.7) =$

b) $(+ 6) + (- 15) =$

$(+ 600) + (- 1500) =$

$(+ 60) + (- 150) =$

$(+ 0.6) + (- 1.5) =$

c) $(- 23) + (- 41) =$

$(- 2300) + (- 4100) =$

$(- 230) + (- 410) =$

$(- 2.3) + (- 4.1) =$

d) $15 + (- 80) =$

$1500 + (- 8000) =$

$150 + (- 800) =$

$1.5 + (- 8) =$

e) $- 28 + 36 =$

$- 2800 + 3600 =$

$- 280 + 360 =$

$- 2.8 + 3.6 =$

a) $(+ 18) - (+ 5) =$

$(+ 1.8) - (+ 0.5) =$

b) $(+ 7) - (+ 32) =$

$(+ 0.7) - (+ 3.2) =$

c) $(- 43) - (- 15) =$

$(- 4.3) - (- 1.5) =$

d) $(- 6) - (- 21) =$

$(- 0.6) - (- 2.1) =$

e) $(+ 65) - (- 20) =$

$6.5 - (- 2) =$

f) $(- 40) - (+ 32) =$

$- 4 - (+ 3.2) =$

g) $(- 33) - 0 =$

$- 3.3 - 0 =$

h) $0 - (+ 81) =$

$0 - (+ 8.1) =$

a) i) $(+ 83) + (+ 36) =$

ii) $(+ 8.3) - (- 3.6) =$

b) i) $(+ 100) + (- 70) =$

ii) $(+ 1) - (+ 0.7) =$

c) i) $(+ 26) + (- 82) =$

ii) $(+ 2.6) - (+ 8.2) =$

d) i) $(- 49) + (+ 94) =$

ii) $(- 4.9) - (- 9.4) =$

e) i) $(- 35) + (- 53) =$

ii) $(- 3.5) - (+ 5.3) =$

f) i) $0 + (+ 42) =$

ii) $0 - (- 4.2) =$

g) i) $0 + (- 27) =$

ii) $0 - (+ 2.7) =$

h) i) $48 + (- 48) =$

ii) $4.8 - (+ 4.8) =$

a) $45 - 39 + 14 - 15 + 26 - 11 =$

b) $63 - 98 + 37 - 32 + 27 - 37 =$

c) $207 - 57 - 140 - 10 + 23 - 48 =$

d) $-200 - 50 - 102 - 42 + 300 + 64 =$

e) $1416 - 234 - 172 + 584 - 628 =$

f) $1000 - 2450 + 1550 - 56 - 944 =$

g) $-(4 - 6) - (-5) =$

h) $5 - (-9 - 14) =$

a)

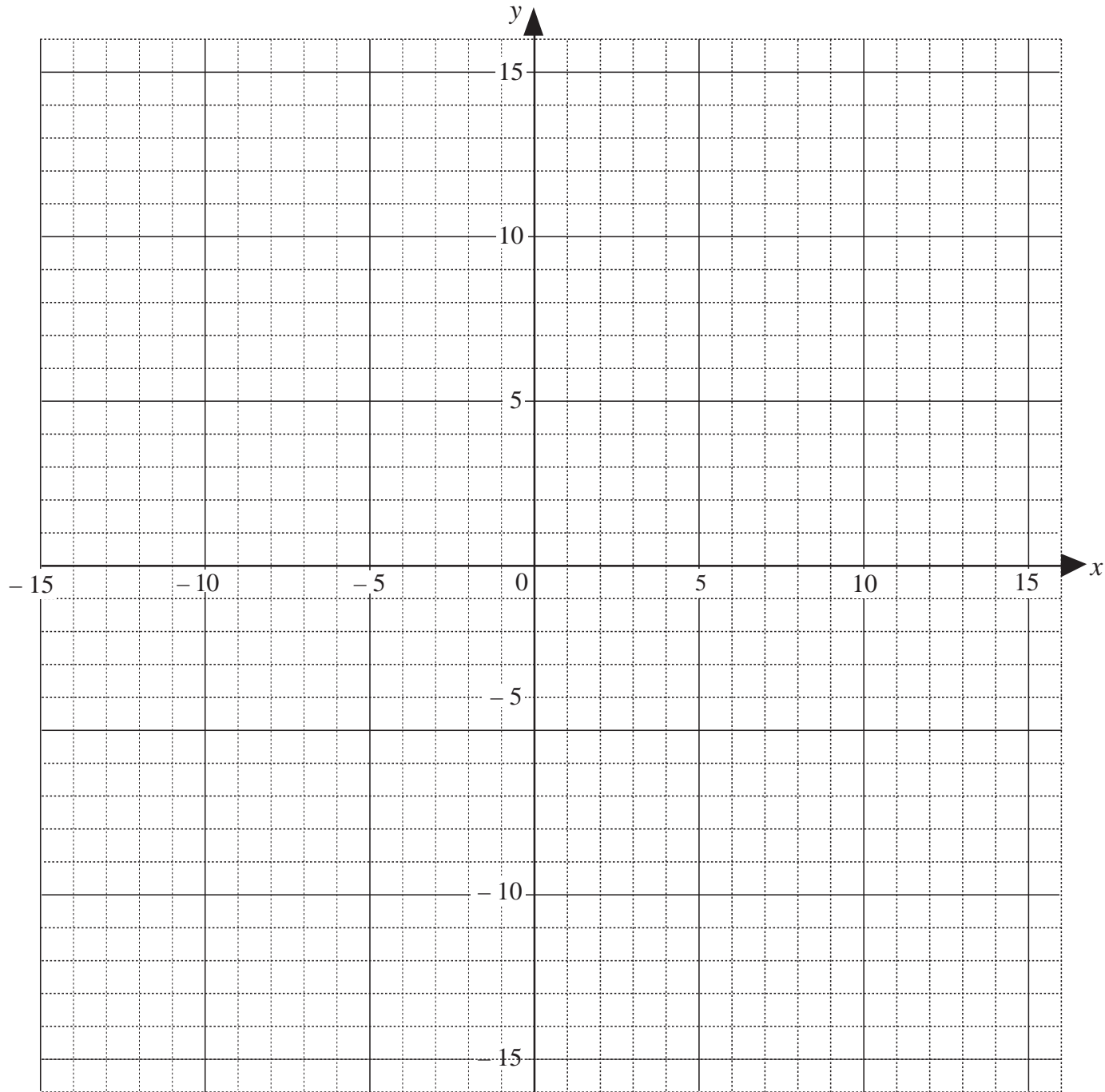
x	-15	-12	-10	-6	-2.5	-1	0	1	2	5.5	8	10	14	15	15.5
y	15		10		2.5		0	1		5.5				15	

Rule: $y =$

b)

x	-15	-12	-10	-6	-2.5	-1	0	1	2	5.5	8	10	14	15	15.5
y	15		10		2.5		0	-1		-5.5				-15	

Rule: $y =$



<i>a</i>	25	8	-12		-10	3.1		-10.5	0.3		-1.2		
<i>b</i>	-100		48	-36			400		-1.2	0		-6	4.4

Rule: $a =$ $b =$

LP 28/2

a) $\square \times (-5) = 45$, $-2.5 \times \square = -12.5$, $\square \times 3 = -9.6$, $\square \times (-7) = -28$

b) $200 \div 40 = \square$, $-36 \div (+4) = \square$, $-60 \div (-12) = \square$, $48 \div (-8) = \square$

c) $\square \div (+7) = -4$, $\square \div (-6) = 11$, $\square \div 5 = 1.2$, $\square \div (-3) = -40$

d) $(-75) \div \square = -25$, $(-39) \div \square = 13$, $4.2 \div \square = 1.4$, $150 \div \square = -50$

LP 28/5

a)

$$(+ 27) \div (+ 3) =$$

$$(+ 18) \div (+ 3) =$$

$$(+ 9) \div (+ 3) =$$

$$0 \div (+ 3) =$$

$$(- 9) \div (+ 3) =$$

$$(- 18) \div (+ 3) =$$

$$(- 27) \div (+ 3) =$$

b)

$$(+ 27) \div (- 3) =$$

$$(+ 18) \div (- 3) =$$

$$(+ 9) \div (- 3) =$$

$$0 \div (- 3) =$$

$$(- 9) \div (- 3) =$$

$$(- 18) \div (- 3) =$$

$$(- 27) \div (- 3) =$$

c)

$$8 \div (- 2) =$$

$$4 \div (- 2) =$$

$$2 \div (- 2) =$$

$$0 \div (- 2) =$$

$$- 2 \div (- 2) =$$

$$- 4 \div (- 2) =$$

$$- 8 \div (- 2) =$$

a) $(-8 + 5) \times 7 =$

b) $(-15 - 8) \times 4$

c) $(-7 + 5) \times (-9) =$

d) $(-28 + 14) \div 7$

e) $(-18 - 12) \div 3 =$

f) $(-8 + 20) \div (-4) =$

g) $(-21 + 21) \div 13 =$

h) $(-12 + 5) \div 0 =$

i) $(15 - 30) \div (-1) =$

j) $-66 \div (24 - 18) =$

k) $-80 \div (-6 + 16) =$

l) $13 \div (-7 + 8) =$

- a) The sum of two (or more) negative numbers is and its absolute value is the of the numbers' .
- b) To add a positive and a negative number, calculate the difference of the values and take the sign of the number which has the absolute value.
- c) To multiply by a negative number, multiply the number of the multiplicand by the opposite number.
- d) The product of a negative and a positive number is and its absolute value is equal to the of their absolute values.
- e) The product or quotient of two negative numbers is .

a) i) $(+ 12.3) + (- 24) =$

ii) $(- 2300) + (- 1100) =$

iii) $6.5 + (- 2.3) + (+ 5) + (- 9.2) =$

b) i) $4.7 - (+ 5.3) =$

ii) $- 210 - (+ 120) =$

iii) $6.8 - (- 2) =$

iv) $- 40 - (- 50) =$

c) i) $+ 8.1 \times (-6) =$

ii) $- 150 \times 9 =$

iii) $- 10.5 \times (-5) =$

iv) $- 2 \times 3 \times (-1) \times (+4) \times (-5) =$

d) i) $3 \div (-2) =$

ii) $(-105) \div 21 =$

iii) $(-8.4) \div (-7) =$

iv) $-123 \div 1 =$

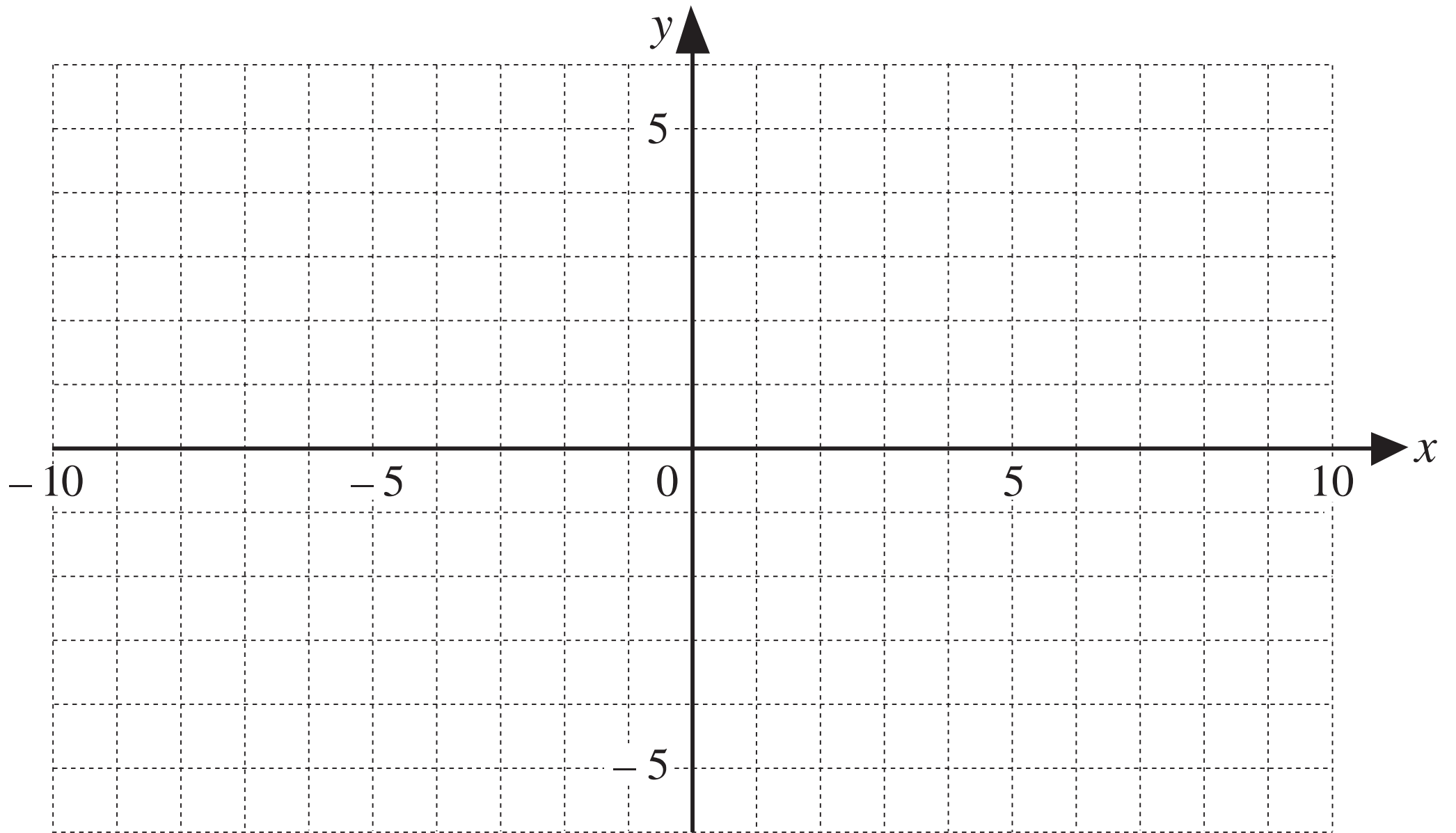
v) $41.3 \div (-1) =$

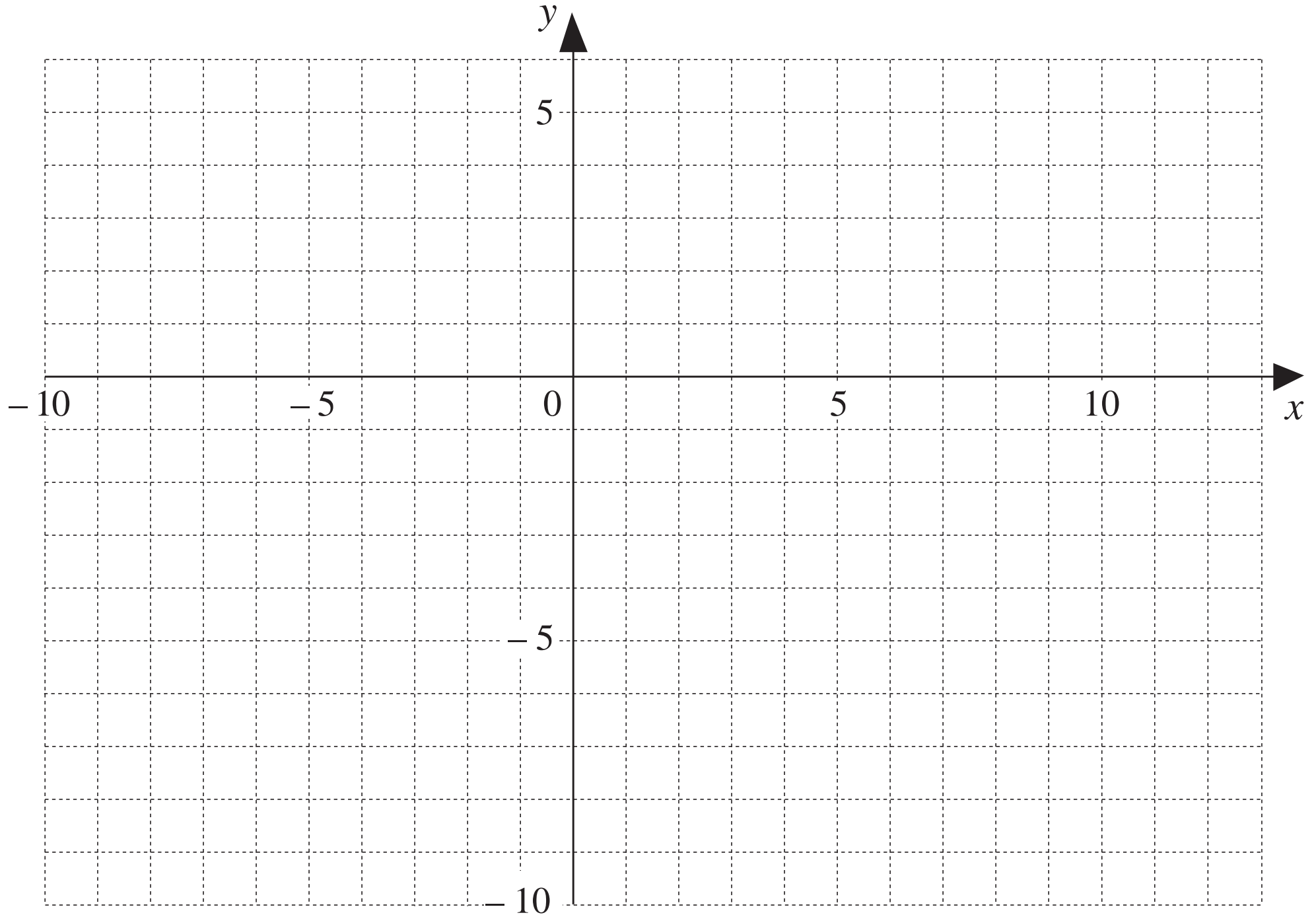
e) i) $(-3) \times (-3) =$

ii) $(-3) \times (-3) \times (-3) =$

iii) $(-3) \times (-3) \times (-3) \times (-3) =$

iv) $(-4) \times (-4) \times (-4) =$



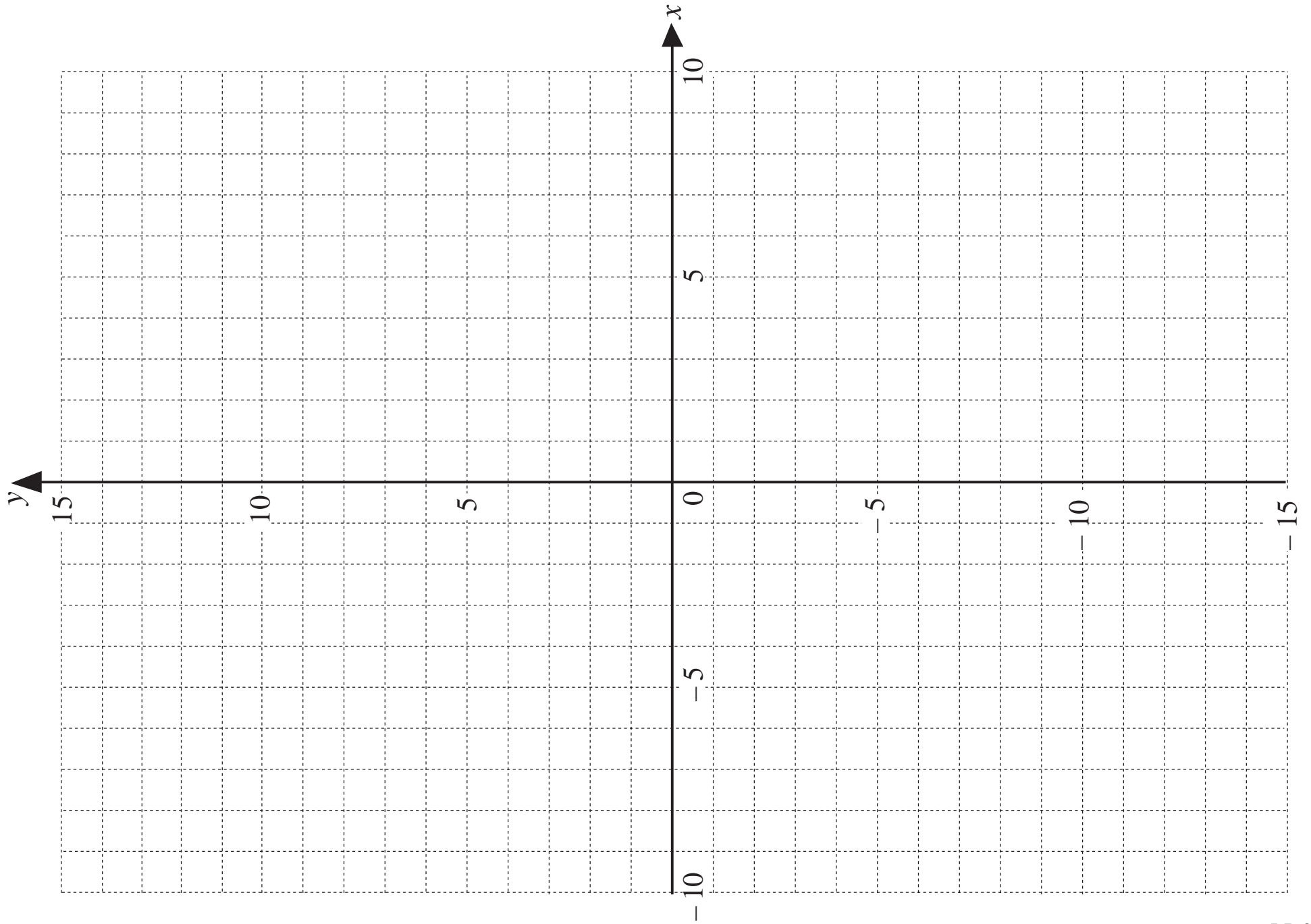


a) *Rule:* $y = (-2) \times x$

x	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
y													

b) *Rule:* $y = (-2) \times x + 3$

x	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
y													



a) $55 - 0.5 =$

$5.5 - 0.05 =$

b) $16 - 4.3 =$

$1.6 - 0.43 =$

c) $-76 - (-2.8) =$

$-7.6 - (-0.28) =$

d) $-32 - (-0.5) =$

$-3.2 - (-0.05) =$

e) $84 - (-11.5) =$

$8.4 - (-1.15) =$

f) $-90 - 5.6 =$

$-9 - 0.56 =$

g) $-11 - 0.11 =$

$-1.1 - 0.011 =$

h) $0.44 - 6.9 =$

$0.044 - 0.69 =$

i) $10 - (-3.5) =$

$1 - (-0.35) =$

j) $-12.1 - (-12.1) =$

$-1.21 - (-1.21) =$

x	-1	-0.8	-0.6		-0.2	-0.1	0		0.3		0.8	0.9	1
y	-0.5			-0.2		-0.05		0.05		0.3			0.5

Rule: $x =$

$y =$

x	-0.8	-0.6	-0.5	-0.4	-0.2	-0.1	0				0.8	0.9	1
y	-1		-0.7			-0.3		-0.1	0	0.3			0.8

Rule: $x =$

$y =$

LP 30/2i

x													1
y	-1												

Rule: $x =$

$y =$

LP 30/3i

