BLACKLINE MASTERS

Junior Elementary Math Mastery+

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LESSON Masters for those not using electronic delivery

		LESSON																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Question	1	01C.01					.01					.01					.01				
	2	02AD.01					.02					.03					.04				
	3	03SU.01					.01														
	4	04MU.01					.01														
	5	05DI.01					.02					.02					.03				
	6	06NP.01					.01					.01					.01				
	7	07FR.01					.01					.02					.03				
	8	08DE.01					.01					.01					.02				
	9	09MM.01					.02					.03					.04				
	10	10SP.01					.02					.03					.04				
	11	11DC.01					.01					.01					.01				
	12	12MO.01					.01					.01					.01				
	13	13TI.01					.01					.02					.02				
	14	14VR.01	.02	.03	.04	.05	.06	.07	.08	.09	.10	.11	.12	.13	.14	.15	.16	.17	.18	.19	.20
	15	15PS.01					.01														

		LESSON																			
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Question	1	01C.01					.01					.01					.01				
	2	02AD.05					.05														
	3	03SU																			
	4	04MU.02					.03					.03									
	5	05DI.03					.03														
	6	06NP.02					.03					.03					.03				
	7	07FR.04					.04					.04									
	8	08DE.03					.03					.03					.04				
	9	09MM					.05										.06				
	10	10SP.05					.06					.07					.08				
	11	11DC.02					.03														
	12	12MO.02					.02					.02					.03				
	13	13TI.03					.03					.04					.05				
	14	14VR.21					.22					.23					.23				
	15	15PS.02					.02														

		LESSON																			
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Question	1	01C.01					.01					.01					.01				
	2	02AD.06					.06					.06					.06				
	3	03SU.02					.03					.04					.05				
	4	04MU.04					.04					.04									
	5	05DI.04					.04					.04									
	6	06NP.04					.04					.04									
	7	07FR.05					.05					.06					.06				
	8	08DE.05					.05					.06					.06				
	9	09MM.07					7/8					.07					.07				
	10	10SP.09					.09					.10					.10				
	11	11DC.04					.04					.05					.05				
	12	12MO.04					.05														
	13	13TI.06					6/7					6/7					6/7				
	14	14VR.24					.24					.24					.24				
	15	15PS																			

		LESSON																			
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Question	1	01C.01					.01					.01					.01				
	2	02AD.07					.08														
	3	03SU.06					.07					.08					.07				
	4	04MU					.05					.05									
	5	05DI.05					.06					.07									
	6	06NP.04					.04					.04									
	7	07FR.06					.06														
	8	08DE.07					.07					.07					.10				
	9	09MM.09					.09										.10				
	10	10SP.11					.11					.11					.12				
	11	11DC.06					.06					.06					.06				
	12	12MO																			
	13	13TI.06/7					6/7					6/7					6/7				
	14	14VR.25					.25					.25					.25				
	15	15PS																			

		LESSON																			
		81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Question	1	01C.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
	2	02AD.02	.03	.04	.05	.05			.06	.06	.06	.06	.07	.08							
	3	03SU.01							.02	.03	.04	.05	.06	.07	.08	.07	.09				
	4	04MU.01			.02	.03	.03		.04	.04	.04			.05	.05		.06				
	5	05DI.02	.02		.03				.04	.04	.04		.05	.06	.07		.08				
	6	06NP.01	.01	.01	.02	.03	.03	.03	.04	.04	.04		.04	.04	.04		01C .02	.02	.02	.02	.02
	7	07FR.01	.02	.03	.04	.04	.04		.05	.05	.06	.06	.06	.06			.04				
	8	08DE.01	.01	.02	.03	.03	.03	.04	.05	.05	.06	.06	.07	.07	.07	.10	.09				
	9	09MM.02	.03	.04		.05		.06	.07	7/8	.07	.07	.09	.09		.10	.11				
	10	10SP.02	.03	.04	.05	.06	.07	.08	.09	.09	.10	.10	.11	.11	.11	.12	.13				
	11	11DC.01	.01	.01	.02	.03			.04	.04	.05	.05	.06	.06	.06	.06	.07				
	12	12MO.01	.01	.01	.02	.02	.02	.03	.04	.05							07FR .01				
	13	13TI.01	.02	.02	.03	.03	.04	.05	.06	6/7	6/7	6/7	6/7	6/7	6/7	6/7	.08				
	14	14VR.10	.15	.20	.21	.22	.23	.23	.24	.24	.24	.24	.25	.25	.25	.25	.25				
	15	15PS.01			.02	.02											.03				

		LESSON																			
		101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Question	1	01C.02					.02					.02					.02				
	2	02AD																			
	3	03SU.09					.09					.09									
	4	04MU.07					.08														
	5	05DI.08																			
	6	01C.02					.02					.02					.02				
	7	07FR.04					.04					.04					.04				
	8	08DE.09																			
	9	09MM.11					.12					.12					.12				
	10	10SP.13					15PS .02					.02					.02				
	11	11DC.07					.07					.07					.07				
	12	07FR.01					.01														
	13	13TI.08					.08					.08					.08				
	14	14VR.25					.25					.25					.25				
	15	15PS.04					.04										.04				

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

–29	–28	–27	–26	–25	–24	–23	–22	–21	–20
–19	–18	–17	–16	–15	–14	–13	–12	–11	–10
–9	–8	–7	–6	–5	–4	–3	–2	–1	0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	**36**	37	38	39	40
41	42	43	44	45	**46**	47	48	49	50
51	52	53	54	55	**56**	**57**	**58**	59	60
61	62	63	64	65	66	67	68	69	70

addend		addend		sum
7	+	3	=	10

1	2	3	4	5	6	7	8	9	10

10	9	8	7	6	5	4	3	2	1

1	2	3	4	5	6	7	8	9	10

1st addend		2nd addend		sum
9	+	8	=	17
10	+	7	=	17
5	+	9	=	14
8	+	6	=	14
7	+	8	=	15
7	+	6	=	13

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

1st addend		2nd addend		sum
68	+	7	=	75
88	+	9	=	97
8	+	79	=	87

19	+	18	=	20	+	17
14	+	16	=	10	+	20
18	+	17	=	20	+	15
15	+	18	=	13	+	20
13	+	17	=	10	+	20

19	+	67	=	20	+	66
19	+	67	=	16	+	70
19	+	48	=	20	+	47
19	+	48	=	17	+	50

264

200 + 60 + 4

155 + 234

100 + 50 + 5

200 + 30 + 4

300 + 80 + 9 = 389

223 + 495

200 + 20 + 3

400 + 90 + 5

600 + 110 + 8 = 718

				difference
10	–	7	=	3
72	–	70	=	2
89	–	80	=	9
92	–	91	=	1

1	2	3	4	5	6	7	8	9	10

10	9	8	7	6	5	4	3	2	1

1	2	3	4	5	6	7	8	9	10

Blackline Master – 03SU.01

$$\begin{array}{r} 65 \\ -\ 12 \\ \hline 53 \end{array}$$

$$\begin{array}{r} 89 \\ -\ 32 \\ \hline ?\ 7 \end{array}$$

$$\begin{array}{r} 465 \\ -\ 312 \\ \hline ?53 \end{array}$$

$$\begin{array}{r} 789 \\ -\ 532 \\ \hline ??7 \end{array}$$

9 2 8

8 3 9

$$\begin{array}{r} 465 \\ -\ 302 \\ \hline ?63 \end{array}$$

	T	Ones
	3	15
	~~4~~	~~5~~
−	2	7
	?	8

		H	T	Ones
7 × 10	=		7	**0**
70 × 10	=	7	0	**0**
75 × 10	=	7	5	**0**

1	2	3	4	5	6	7	8	9	10	10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10

10	×	8	=	H	T	Ones
				8	**0**	

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

product

88 × 5 = ?

88 × 10 = 880 ½ 440

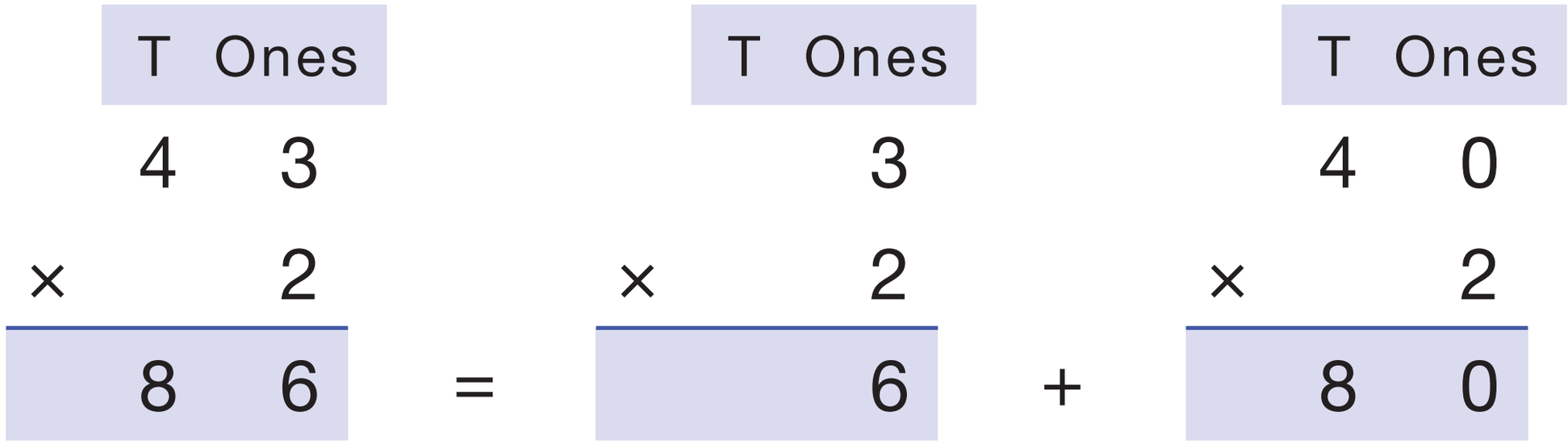
$$7 \times 100 =$$

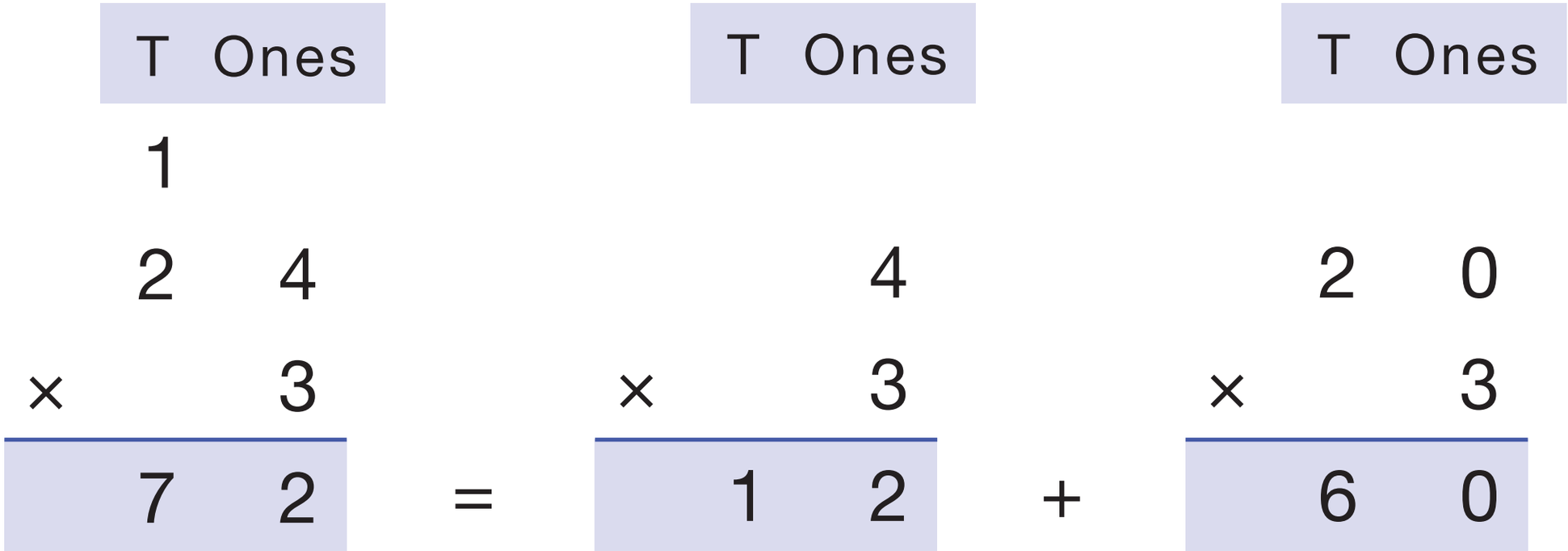
$$70 \times 100 =$$

$$75 \times 100 =$$

Th	H	**T**	**Ones**
	7	**0**	**0**
7	0	**0**	**0**
7	5	**0**	**0**

88	×	50	=	?
88	×	100	=	8800
				4400


T Ones
4 3
× 2
8 6
=
T Ones
3
× 2
6
+
T Ones
4 0
× 2
8 0


T Ones
1
2 4
× 3
7 2
=
T Ones
4
× 3
1 2
+
T Ones
2 0
× 3
6 0

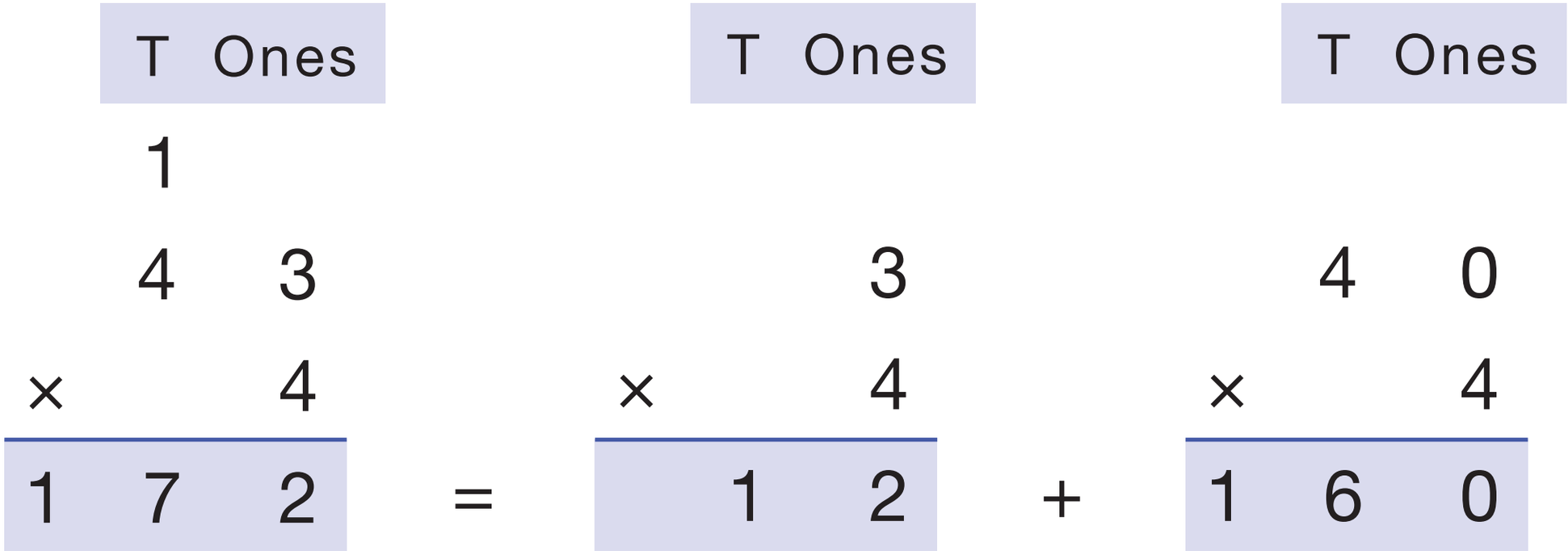

T Ones
1
4 3
× 4
1 7 2
=
T Ones
3
× 4
1 2
+
T Ones
4 0
× 4
1 6 0

Figure 1

Figure 2

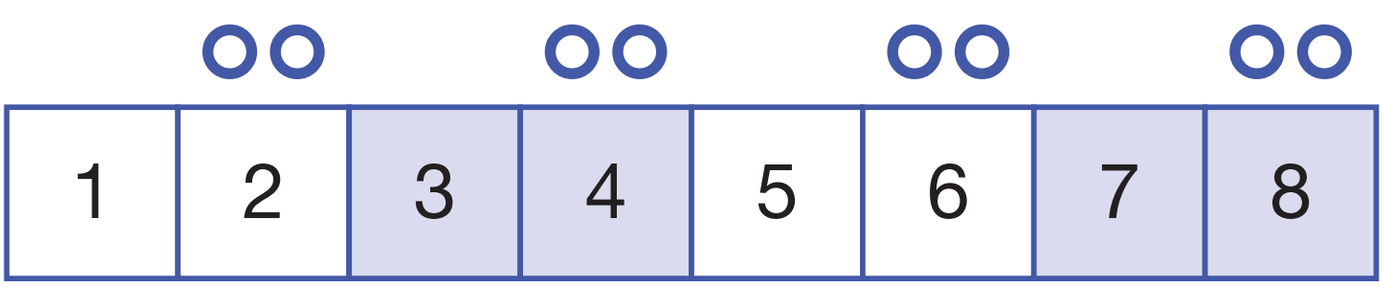
Figure 3

Blackline Master – 05DI.01

$$8 \div 2 = ?$$

step 1	$8 - 2 = 6$
step 2	$6 - 2 = 4$
step 3	$4 - 2 = 2$
step 4	$2 - 2 = 0$

$$8 \div 2 = 4$$



$$10 \div 2 = 5$$

$$5 \times 2 = 10$$

$$6 \div 3 = 2$$

$$\frac{6}{3}$$

$$3\overline{)6}\quad 2$$

$$96 \div 3 = \boxed{32}$$

$$\frac{96}{3}$$

$$\begin{array}{r|l} & 32 \\ \hline 3 & 96 \end{array}$$

$$396 \div 3 = 132$$

$$\frac{396}{3}$$

$$\begin{array}{r|l} 132 & \\ \hline 3 & 396 \end{array}$$

$$306 \div 3 = 102$$

$$\frac{306}{3}$$

$$\begin{array}{r|l} & 102 \\ \hline 3 & 306 \end{array}$$

$$72 \div 3 = 24$$

	2 4
3	$7^{1}2$

a

Hannah

5

33

161

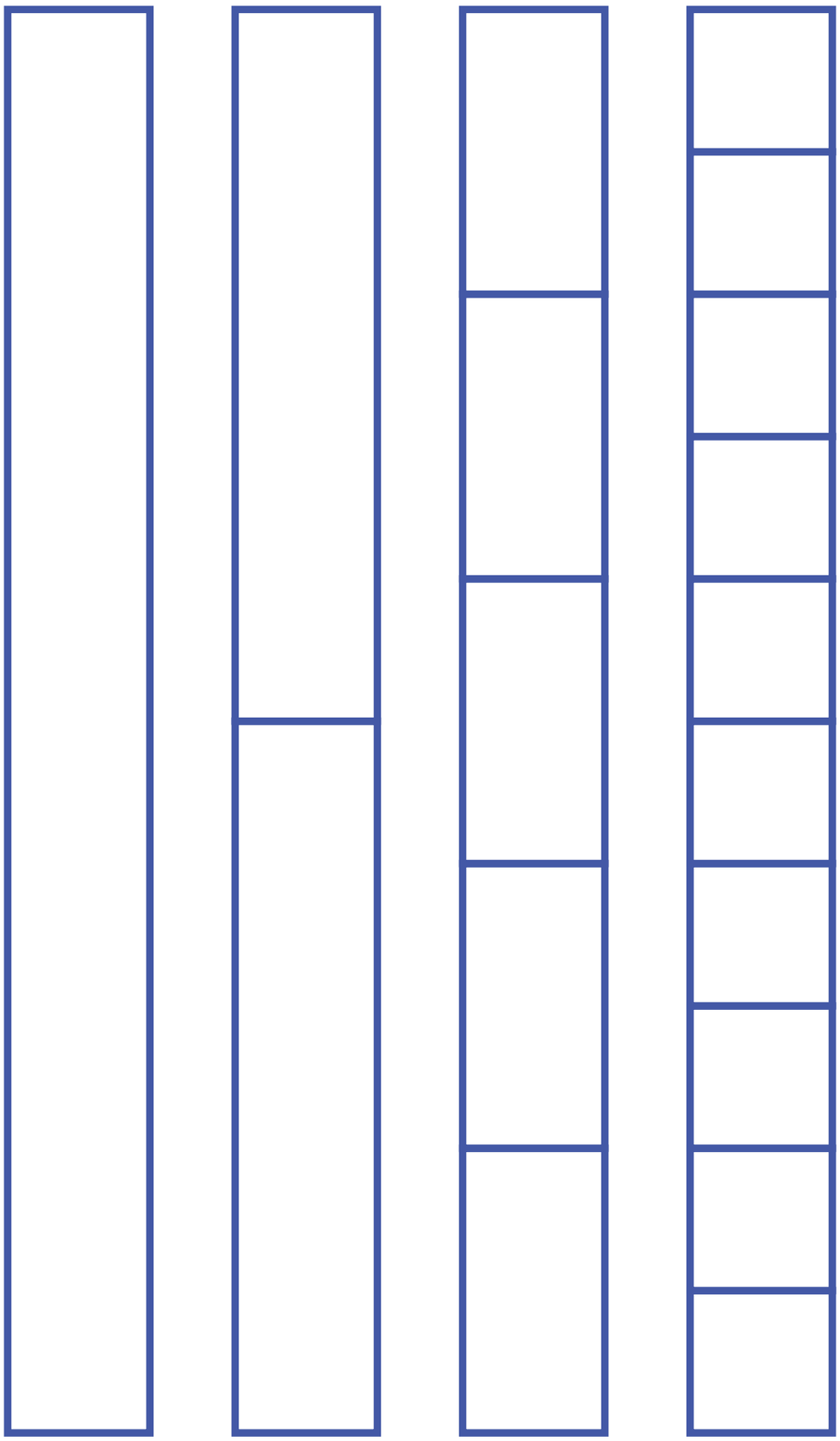
Roman number system		
symbol	**value**	**example**
I	one	II = 1 + 1 = 2
V	five	VI = 5 + 1 = 6
X	ten	XI = 10 + 1 = 11

Blackline Master – 06NP.02

Roman number system			
symbol	**value**	**example**	
I	one	II = 1 + 1 = 2	
V	five	IV = 5 – 1 = 4	
X	ten	IX = 10 – 1 = 9	XIV = 14
L	fifty	LV = 50 + 5 = 55	

Blackline Master – 06NP.03

				product	sum of digits
1	×	9	=	9	
2	×	9	=	18	1 + 8 = 9
?	×	9	=	27	2 + 7 = 9
4	×	?	=	36	3 + ? = 9
?	×	9	=	45	? + 5 = 9
6	×	9	=	??	5 + 4 = 9
?	×	9	=	63	? + ? = 9
8	×	9	=	7?	7 + 2 = 9
9	×	9	=	??	8 + 1 = 9
10	×	?	=	90	? + ? = 9


A
B
C
D

A

1 whole

B

1/2	1/2

C

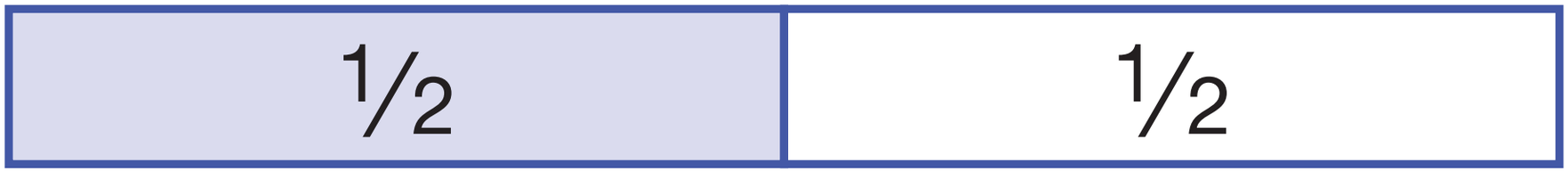
1/4	1/4	1/4	1/4

D

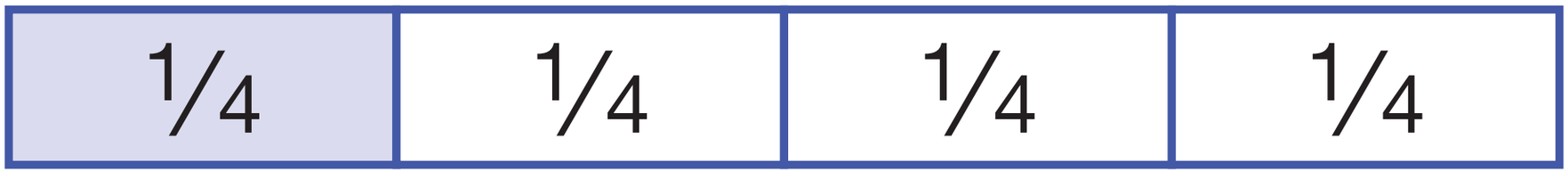
1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8

A

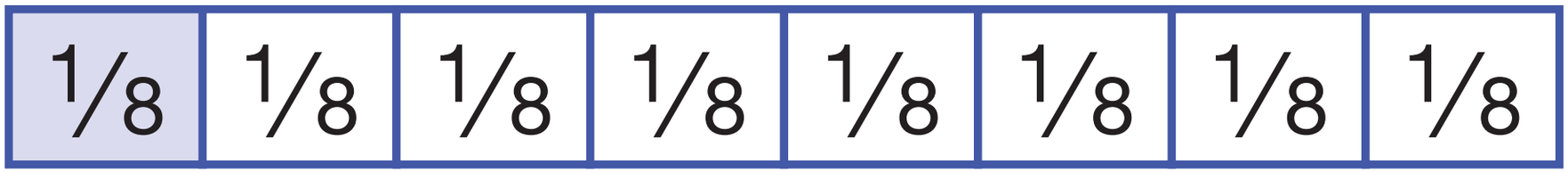
B

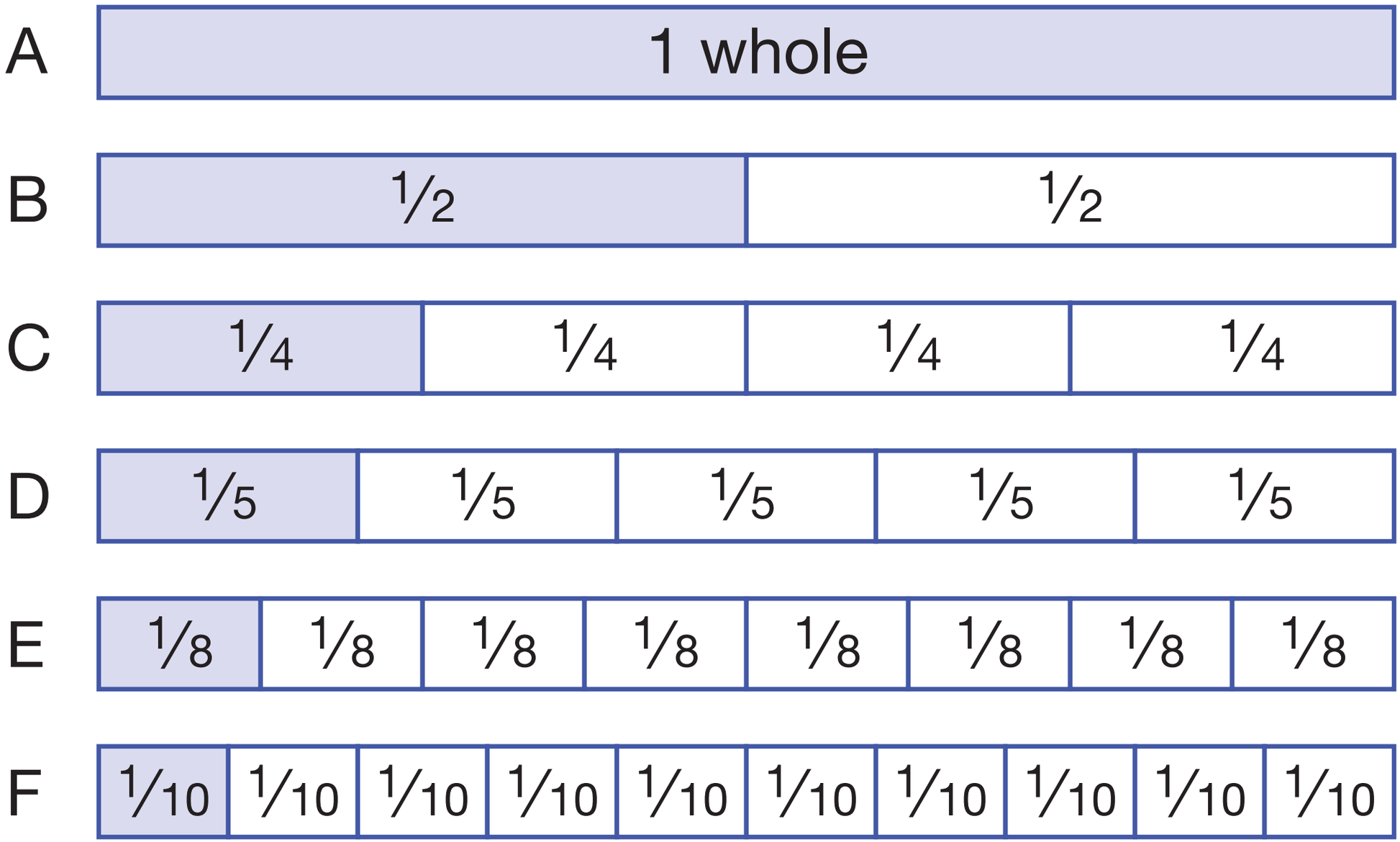


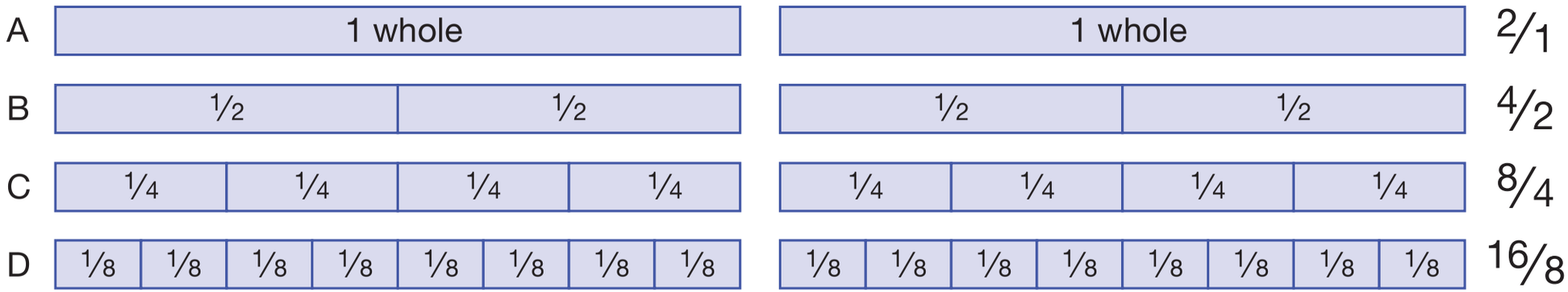
C



D




A
1 whole
B
1/2
1/2
C
1/4
1/4
1/4
1/4
D
1/5
1/5
1/5
1/5
1/5
E
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
F
1/10
1/10
1/10
1/10
1/10
1/10
1/10
1/10
1/10
1/10


A
1 whole
1 whole
2/1
B
1/2
1/2
1/2
1/2
4/2
C
1/4
1/4
1/4
1/4
1/4
1/4
1/4
1/4
8/4
D
1/8
1/8
1/8
1/8
1/8
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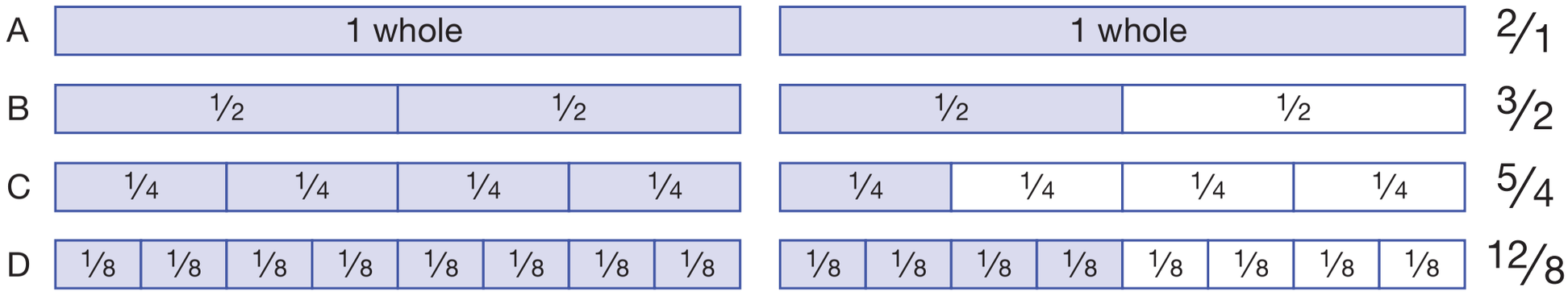
1/8
1/8
16/8


A
1 whole
1 whole
2/1
B
1/2
1/2
1/2
1/2
3/2
C
1/4
1/4
1/4
1/4
1/4
1/4
1/4
1/4
5/4
D
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8
12/8

whole number 5.2 value less than 1

decimal point

Blackline Master – 08DE.01

ones place 0.2 value less than 1

decimal point

ones
5.2
tenths
decimal point
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0

Terms

tens

tenths

fifty-two

whole number

decimal point

decimal number

two ones and five tenths

five ones and two tenths

0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
0.21	0.22	0.23	0.24	0.25					

$0.01 = \frac{1}{100}$ $0.10 = \frac{10}{100}$ $0.25 = \frac{25}{100}$ $0.99 = \frac{99}{100}$

whole number	0.09	value less than 1
	+ 0.91	
	1.00	

whole number

Tens
Ones
Tenths
Hundredths

value less than 1

0.01	
+ 0.1	
0.11	

Terms

tens

tenths

fifty-two

whole number

decimal point

decimal number

two ones and five tenths

five ones and two tenths

whole number

value less than 1

	Tens	Ones	**Tenths**	**Hundredths**
		2.	5	1
+		3.	1	
		5.	6	1

Terms

tens

tenths

fifty-two

hundreds

hundredths

decimal point

whole number

five ones and two tenths

five ones and two hundredths

Figure 1

Figure 2

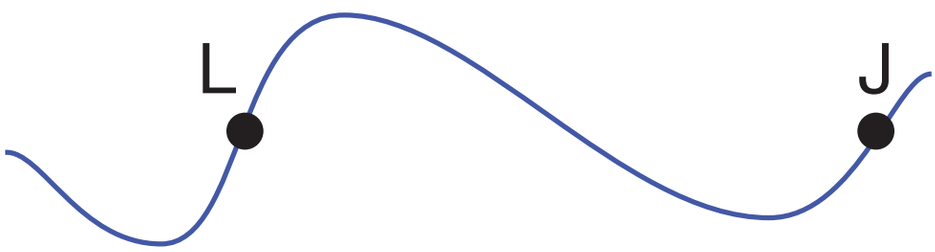


Figure 3

Figure 4

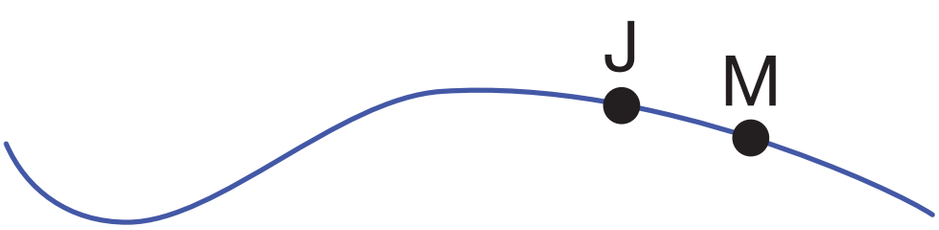


Figure 5

Figure 1

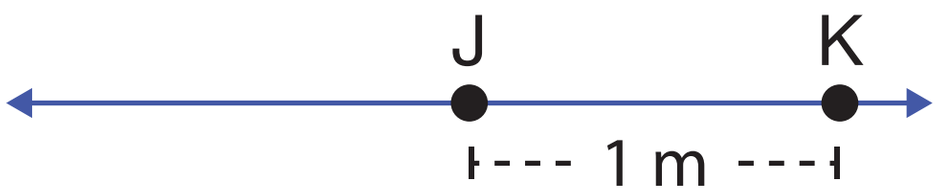


Figure 2

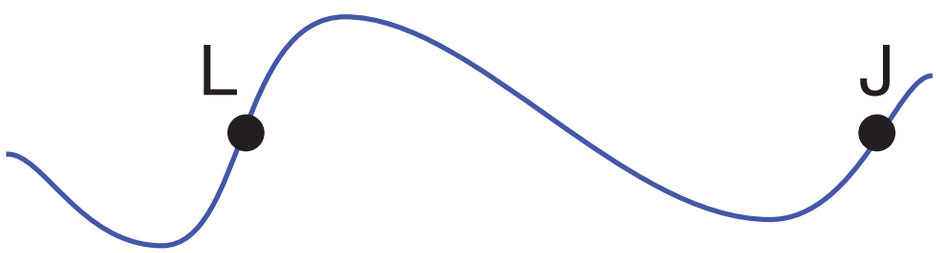


Figure 3

Figure 4

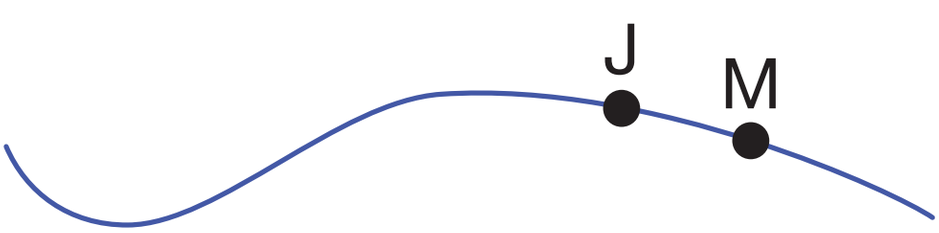


Figure 5

1 metre (m) = 100 centimetres (cm)

100 centimetres (cm) = 1 metre (m)

1 cm	×	100	=	1 m
10 cm	×	10	=	1 m
20 cm	×	5	=	1 m
50 cm	×	2	=	1 m

Terms

centimetre (cm)

metre (m)

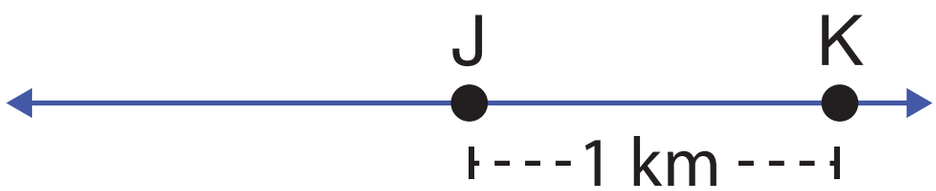
101 cm

99 cm

50 cm

Units of Length	
1 kilometre (km)	1000 metres (m)
1 metre (m)	100 centimetres (cm)
	1000 millimetres (mm)
1 centimetre (cm)	10 millimetres (mm)

Figure 1



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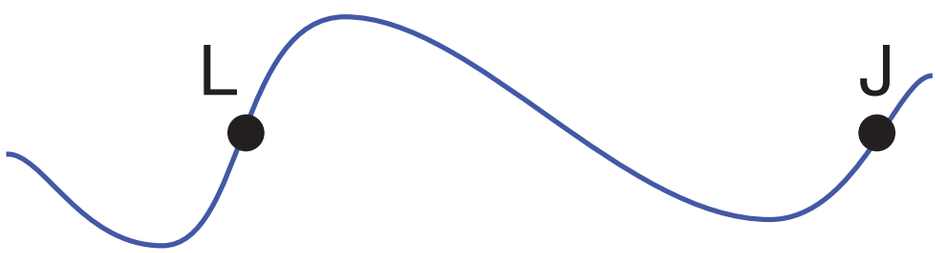


Figure 3

Figure 4

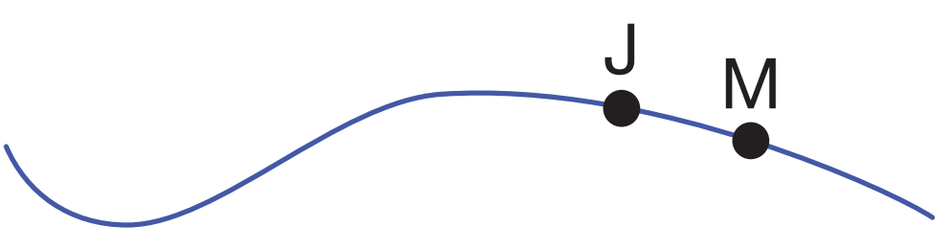


Figure 5

Units of Capacity	
1 litre (L)	1000 millilitres (mL)
1 millilitre (mL)	about 20 drops

Terms

kilometre (km)

kilogram (kg)

gram (g)

litre (L)

1001 mL

1001 km

1001 cm

1001 mm

999 mL

999 km

999 cm

999 g

Units of Mass	
1 tonne (t)	1000 kilograms (kg)
1 kilogram (kg)	1000 grams (g)
1 gram (g)	1000 milligrams (mg)

	Coin value	Mass (approx)	100 g Number of coins (approx)	1 kg Number of coins (approx)
	$2	6.6 g	15	150
	$1	9.0 g	11	110
	50¢	15.6 g	6	60
	20¢	11.3 g	9	90
	10¢	5.7 g	18	180
	5¢	2.8 g	36	360

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

Figure 1

Figure 2

Figure 1

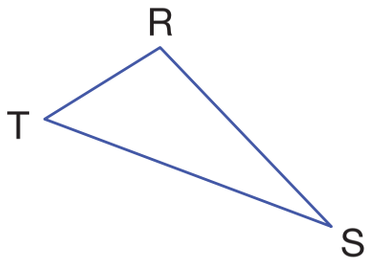


Figure 2

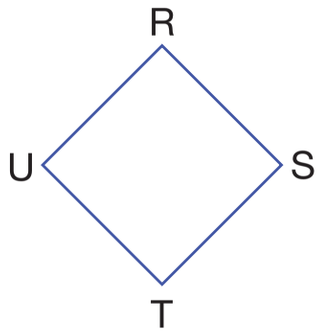
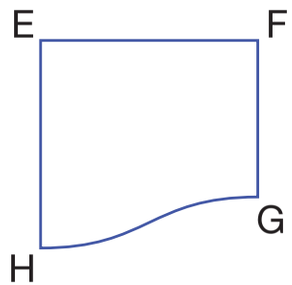


Figure 3



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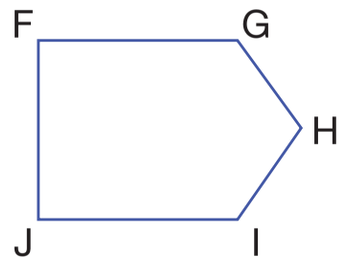

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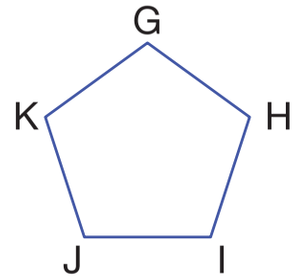


Figure 1

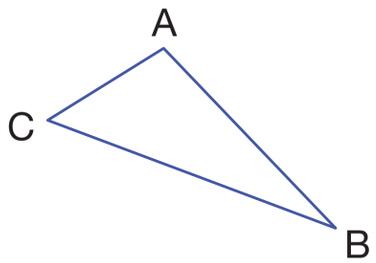


Figure 2

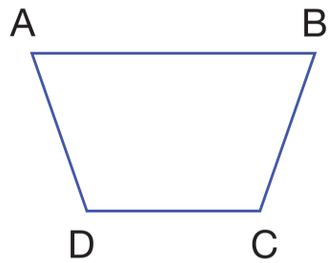


Figure 3

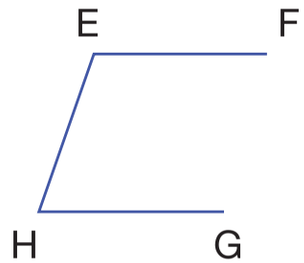


Figure 4

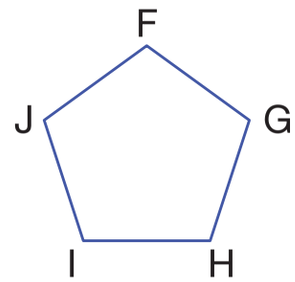
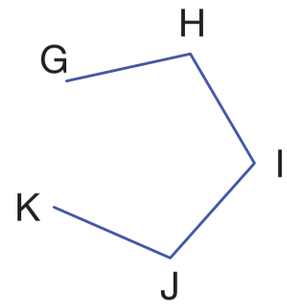
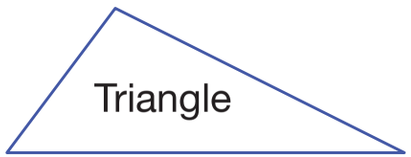


Figure 5

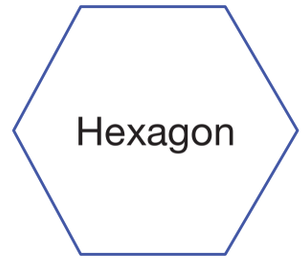



Triangle

Square

Rectangle

Pentagon


Hexagon

Terms

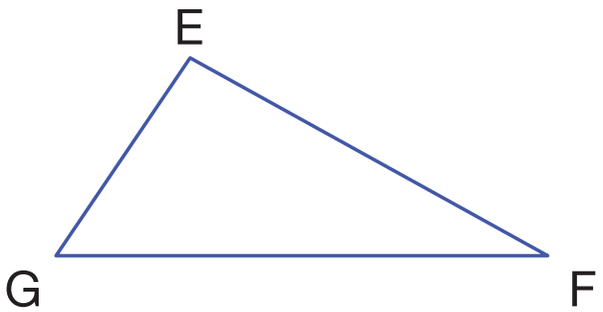
line

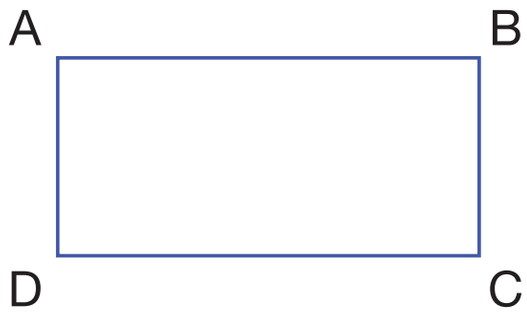
point

polygon

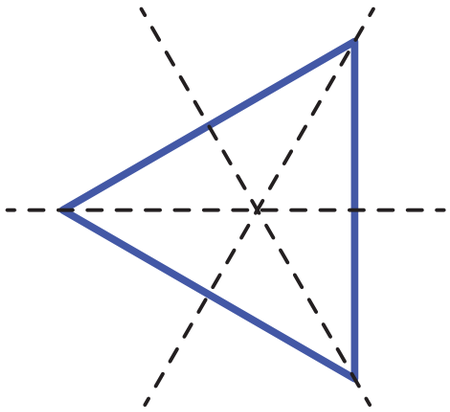
line segment

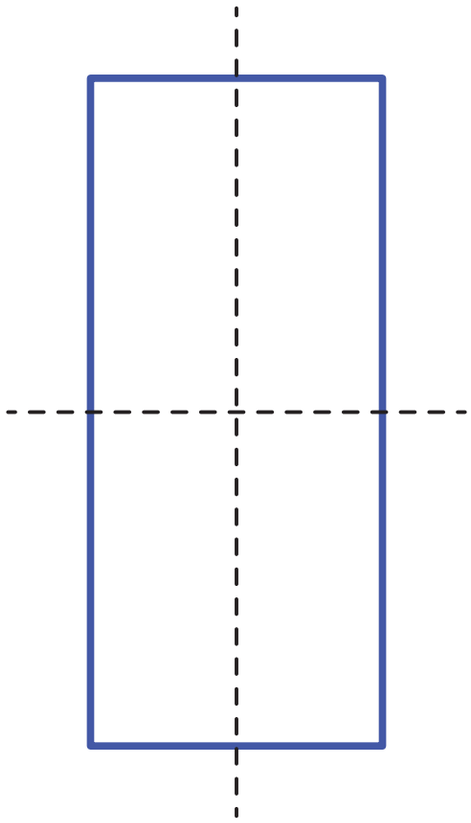
closed shape

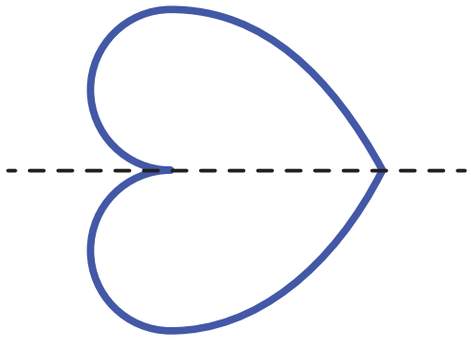

E
G
F


A
B
D
C

Clockwise

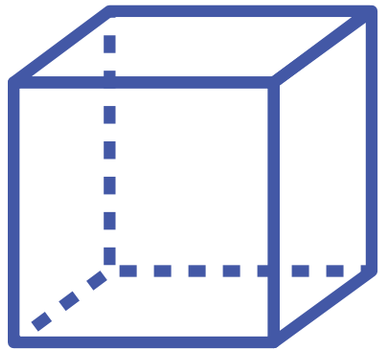




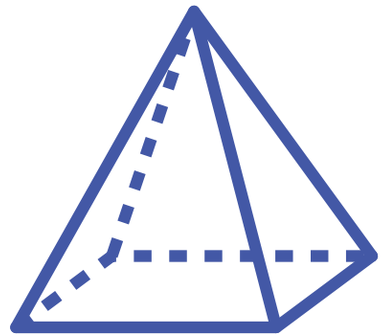


Blackline Master – 10SP.10

face
edge
vertex
(vertices)



cube



square based pyramid

Terms

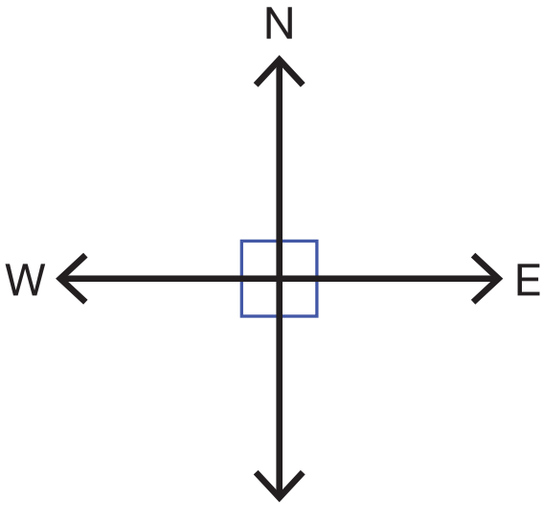
cube

edge

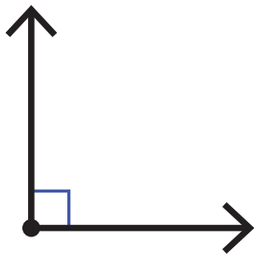
face

vertex

square based pyramid

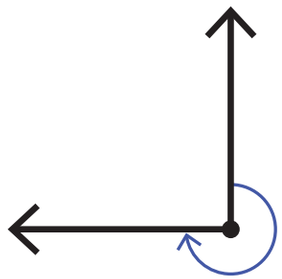


0°

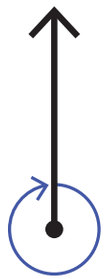


90°

180°



270°



360°

Favourite dog name	
Name	Tally
Barney	𝍸
Bella	𝍸
Coco	𝍸 𝍸 |
Dixie	𝍸 |||
Dodger	𝍸 𝍸
Leroy	𝍸 |||
Max	𝍸 |
Rocco	||

Favourite dog name	
Name	Frequency
Barney	4
Bella	
Coco	
Dixie	9
Dodger	
Leroy	
Max	6
Rocco	

Blackline Master – 11DC.01

Terms

certain

possible

impossible

Terms

impossible

unlikely

equal chance

likely

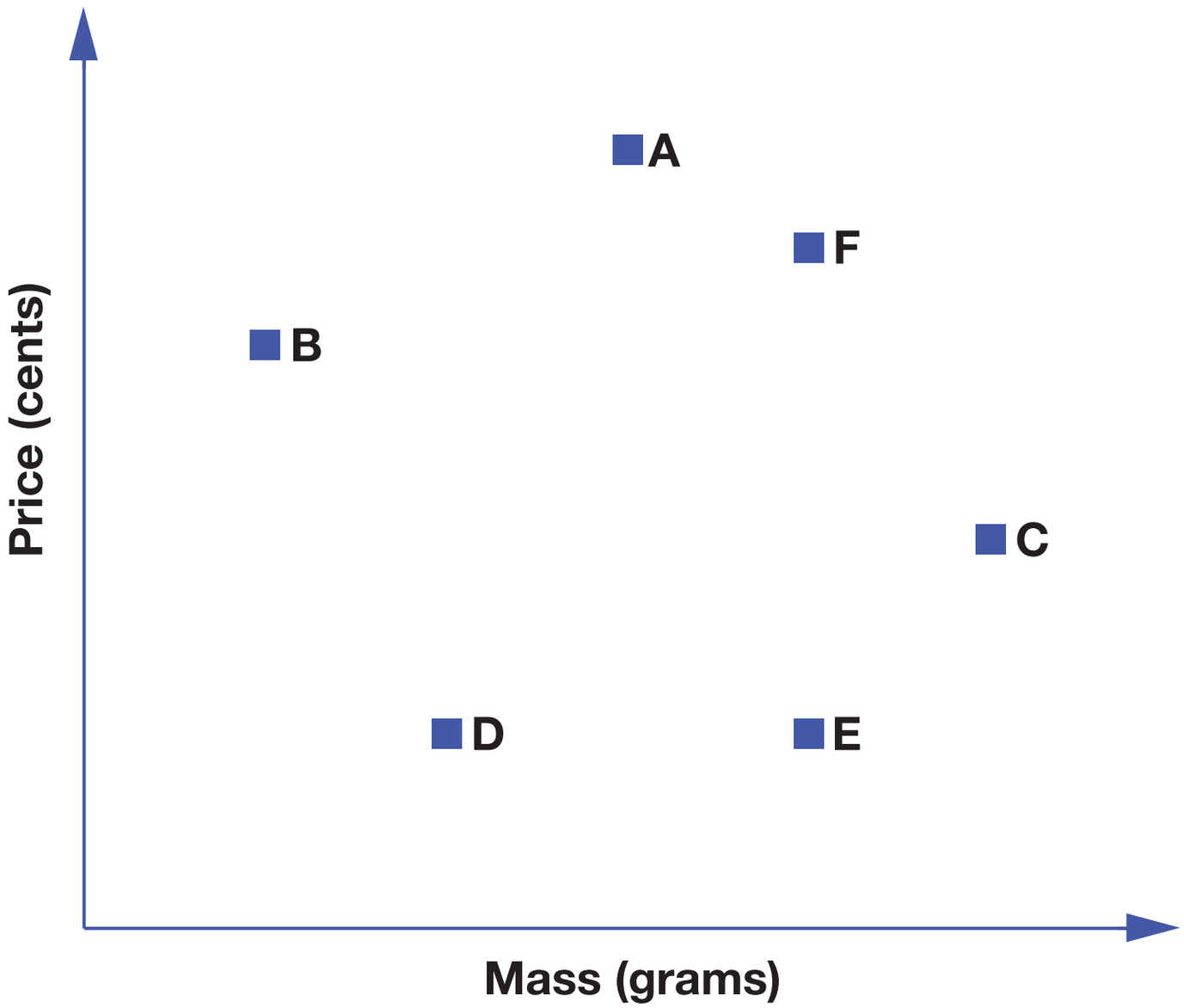
certain

Tree Planting Program			
	Como Park	**Dendy Park**	**Total**
2007	4	6	10
2008	6	5	11
Total	**10**	**11**	**21**

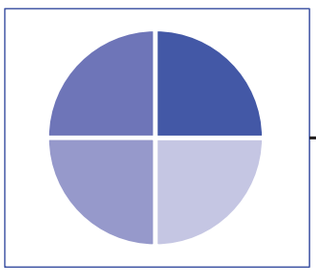
Blackline Master – 11DC.04

Tree Planting Program			
	Como Park	**Dendy Park**	**Total**
2009	7		15
2010		4	7
Total	**10**	**12**	

Cereal price comparison

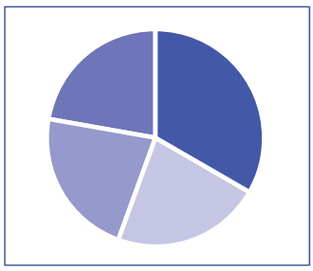


A



B

C



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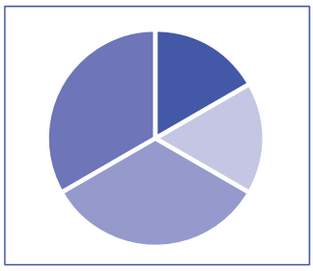

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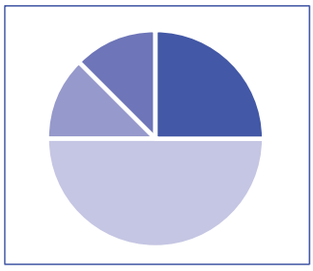
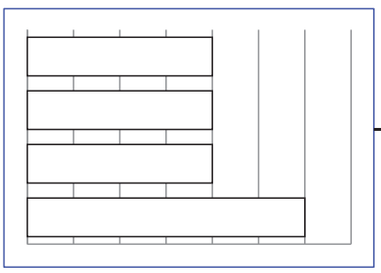


F



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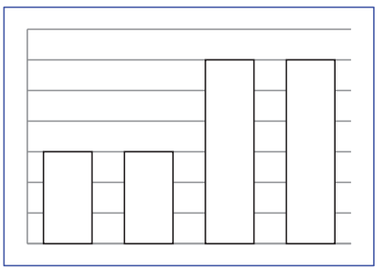

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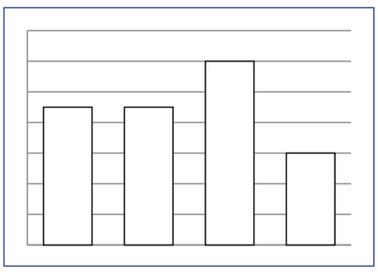
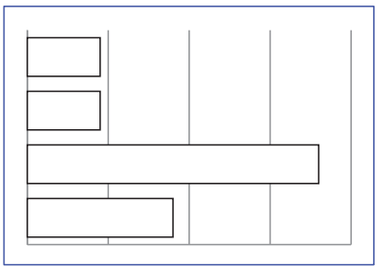


I



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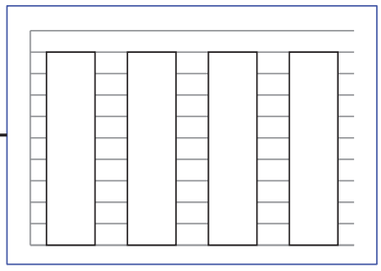


K

Score	Tally
1	𝍸 I
2	𝍸 I
3	𝍸 𝍸 II
4	𝍸 𝍸 II

L

Score	Tally
1	𝍸 I
2	IIII
3	IIII
4	IIII

M

Score	Tally
1	𝍸 𝍸 𝍸 III
2	𝍸 𝍸 𝍸 III
3	𝍸 𝍸 𝍸 III
4	𝍸 𝍸 𝍸 III

N

Score	Tally
1	𝍸 IIII
2	𝍸 IIII
3	𝍸 𝍸 II
4	𝍸 I

O

Score	Tally
1	𝍸 IIII
2	𝍸 𝍸 𝍸 III
3	IIII
4	IIII

Number of coins in set	Coin value		Set value
5	$2		$10
10	$1		$10
20	50¢		$10
50	20¢		$10
100	10¢		$10
200	5¢		$10

Number in set	Value		Set value
1	$100		$100
2	$50		$100
5	$20		$100
10	$10		$100
20	$5		$100
50	$2		$100
100	$1		$100
200	50¢		$100
500	20¢		$100
1000	10¢		$100
2000	5¢		$100

Values

$10

$20

$100

$200

$210

60 c

70 c

80 c

90 c

$1

60 c

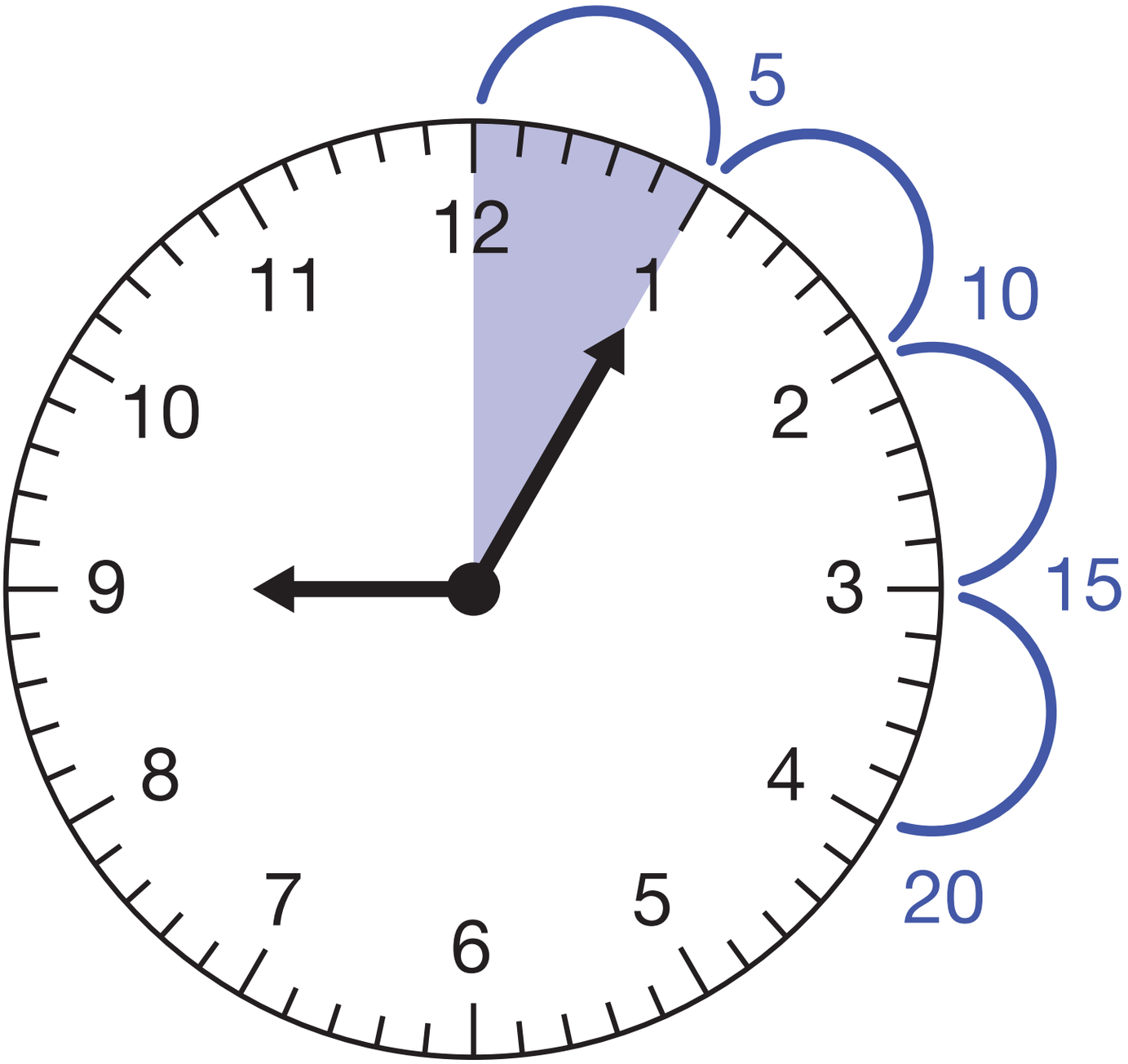
70 c

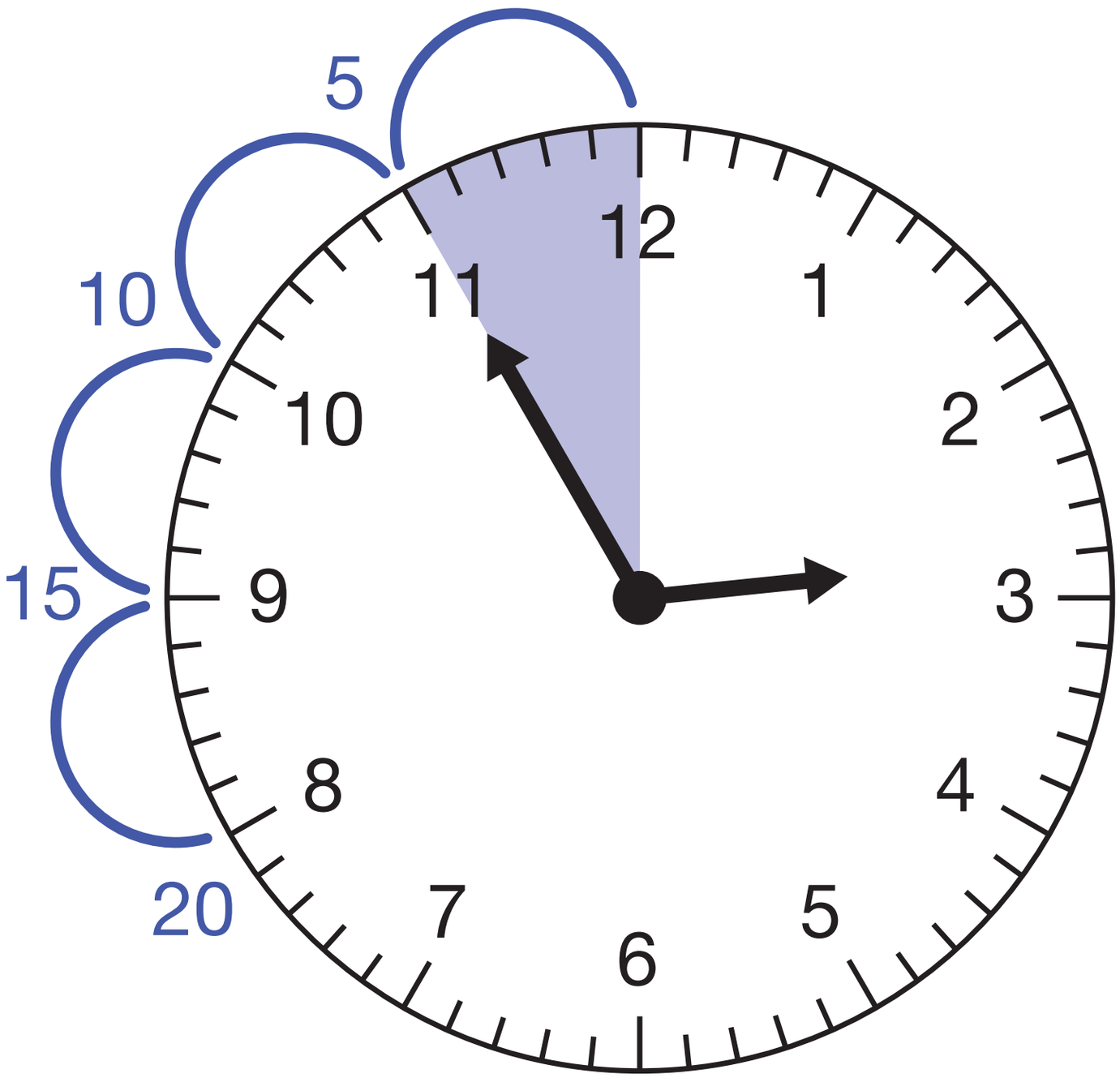
80 c

90 c

$1

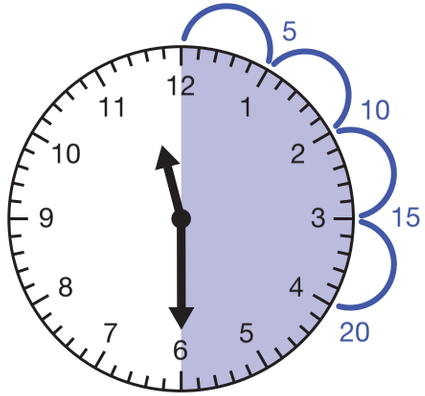
$2


5
10
15
20
12
1
2
3
4
5
6
7
8
9
10
11


5
10
15
20
12
1
2
3
4
5
6
7
8
9
10
11

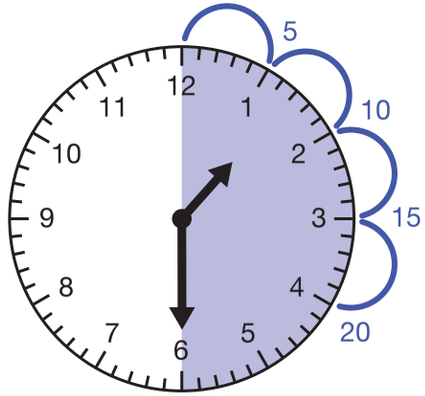
60 minutes (min) = 1 hour (hr) = 2 half hours

A

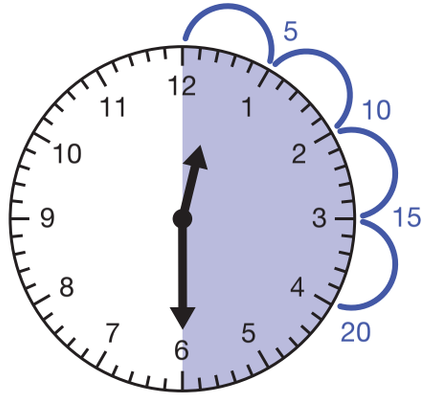


11:30

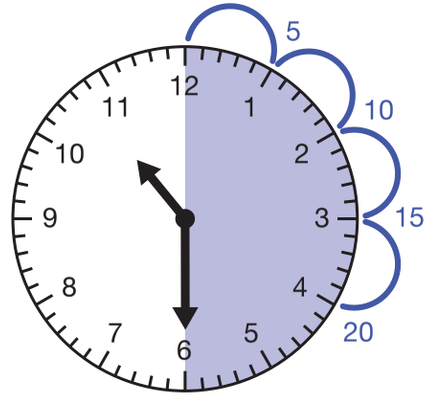
B



C

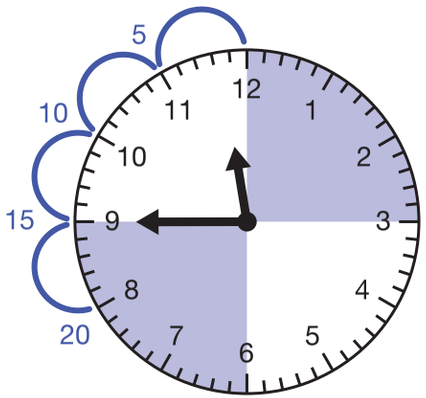


D

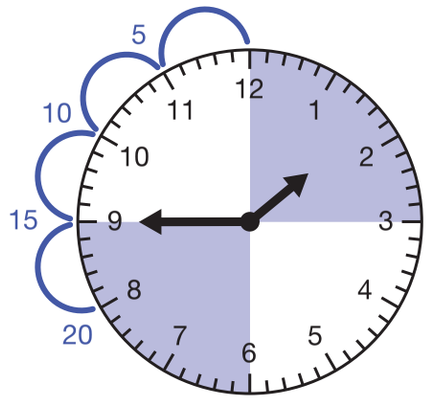


60 minutes (min) = 1 hour (hr) = 4 quarter hours

A



B



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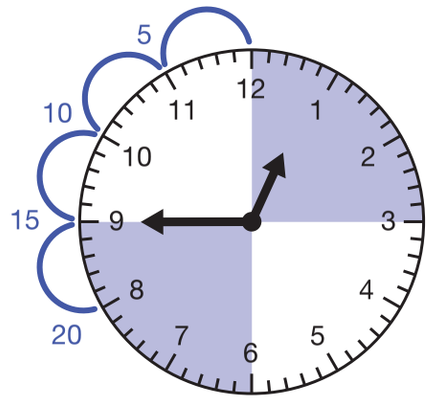

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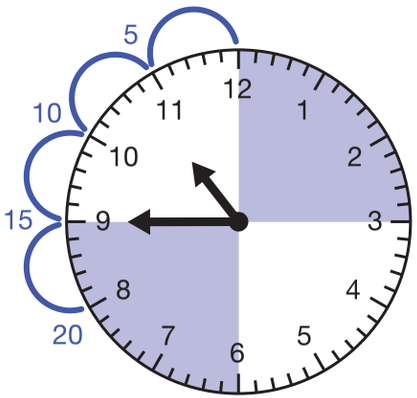


10:45

Terms

A 1 hour

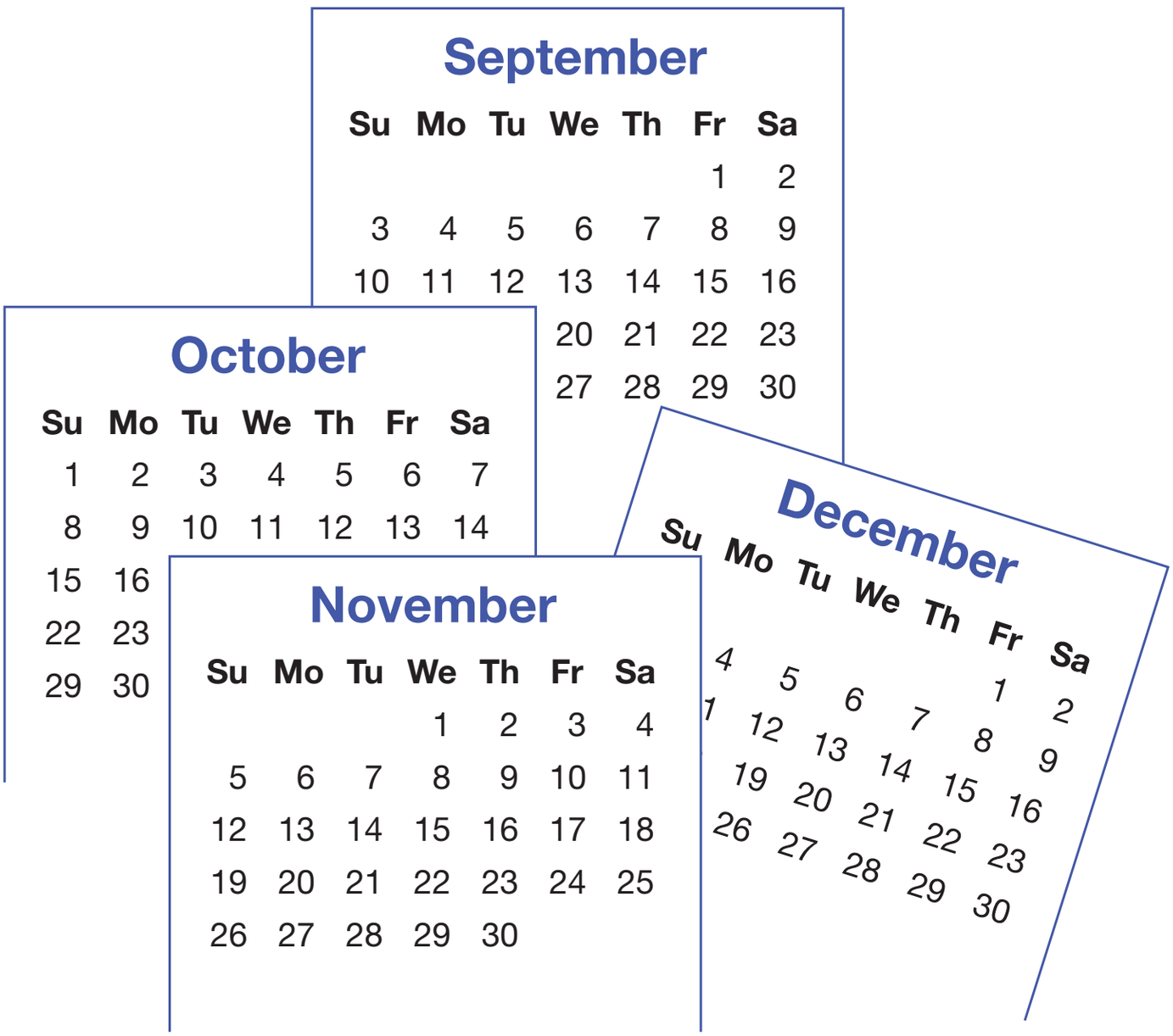
B half past

C quarter to

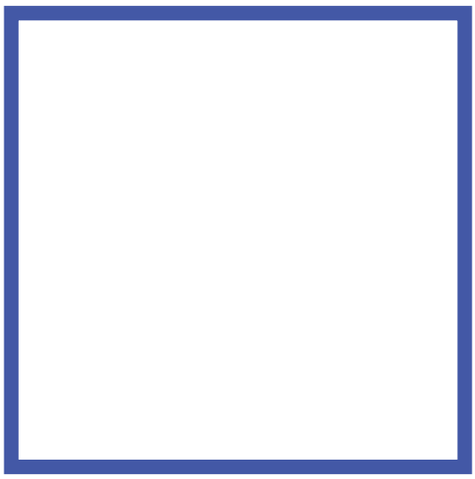
D hour hand

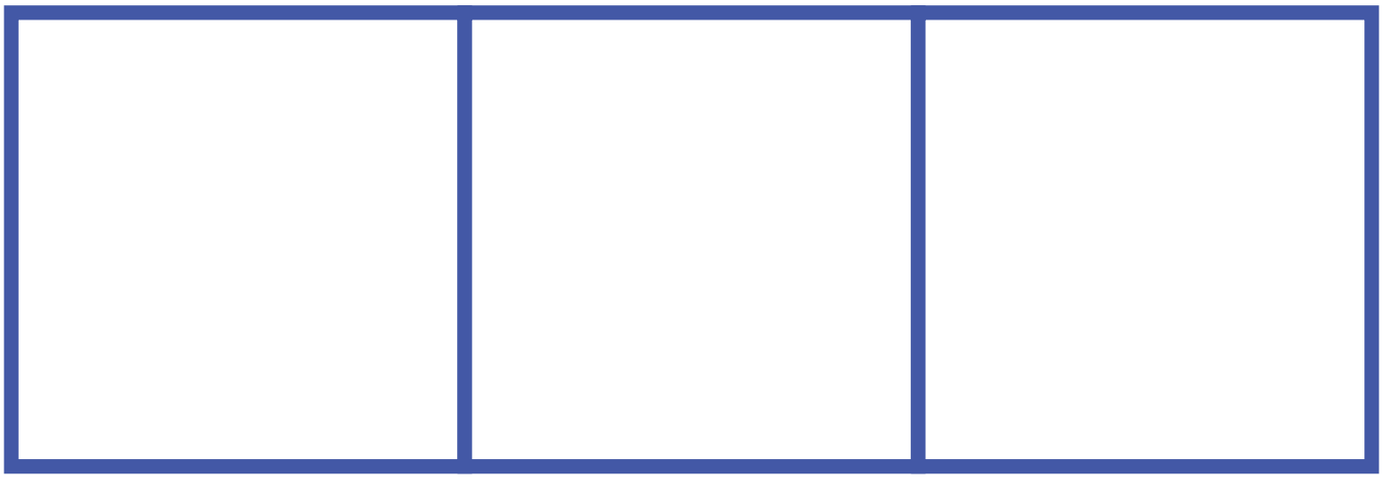
E minute hand

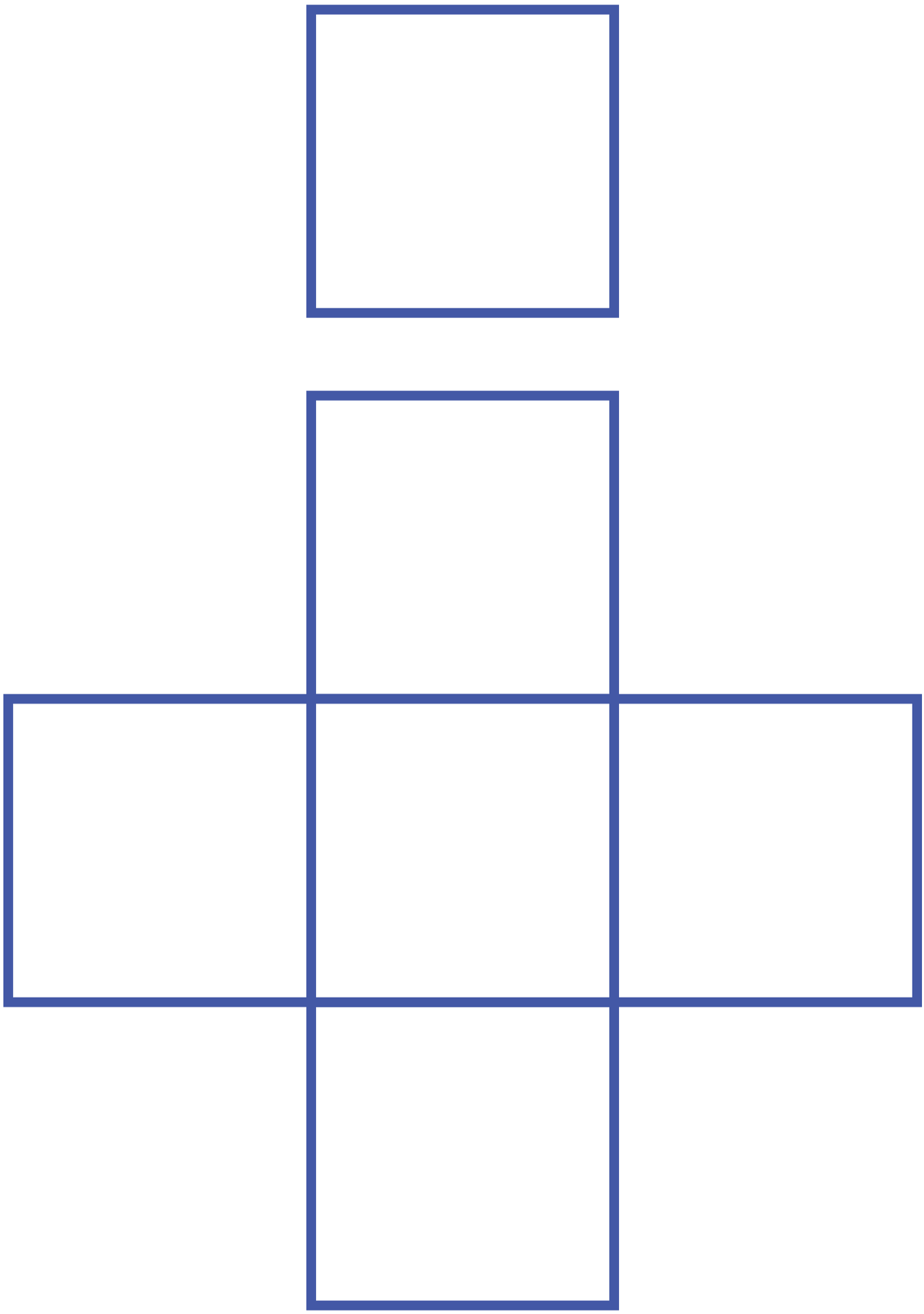
Units of Time	
1 year	12 months
	52 weeks + 1 or 2 days
	365 or 366 days
1 month	28, 29, 30, 31 days
1 week	7 days
1 day	24 hours (hr)
1 hour (hr)	60 minutes (min)
1 minute (min)	60 seconds (sec)

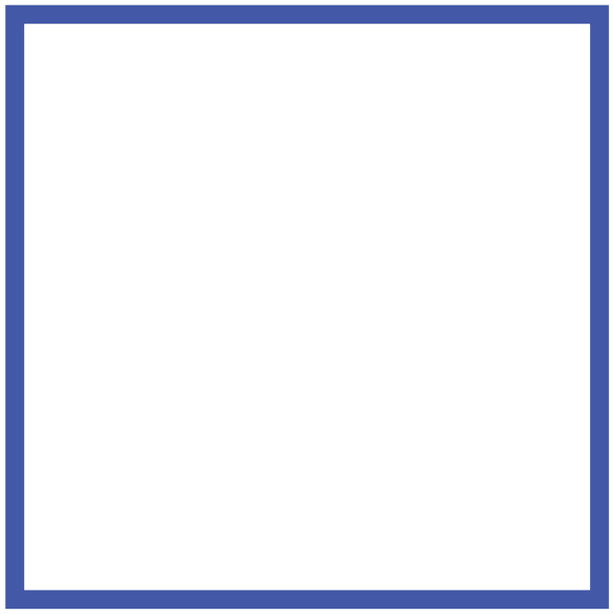

September
Su Mo Tu We Th Fr Sa
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
20 21 22 23
27 28 29 30
October
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16
22 23
29 30
November
Su Mo Tu We Th Fr Sa
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30
December
Su Mo Tu We Th Fr Sa
4 5 6 1 2
1 12 13 7 8 9
19 20 14 15 16
26 27 21 22 23
28 29 30

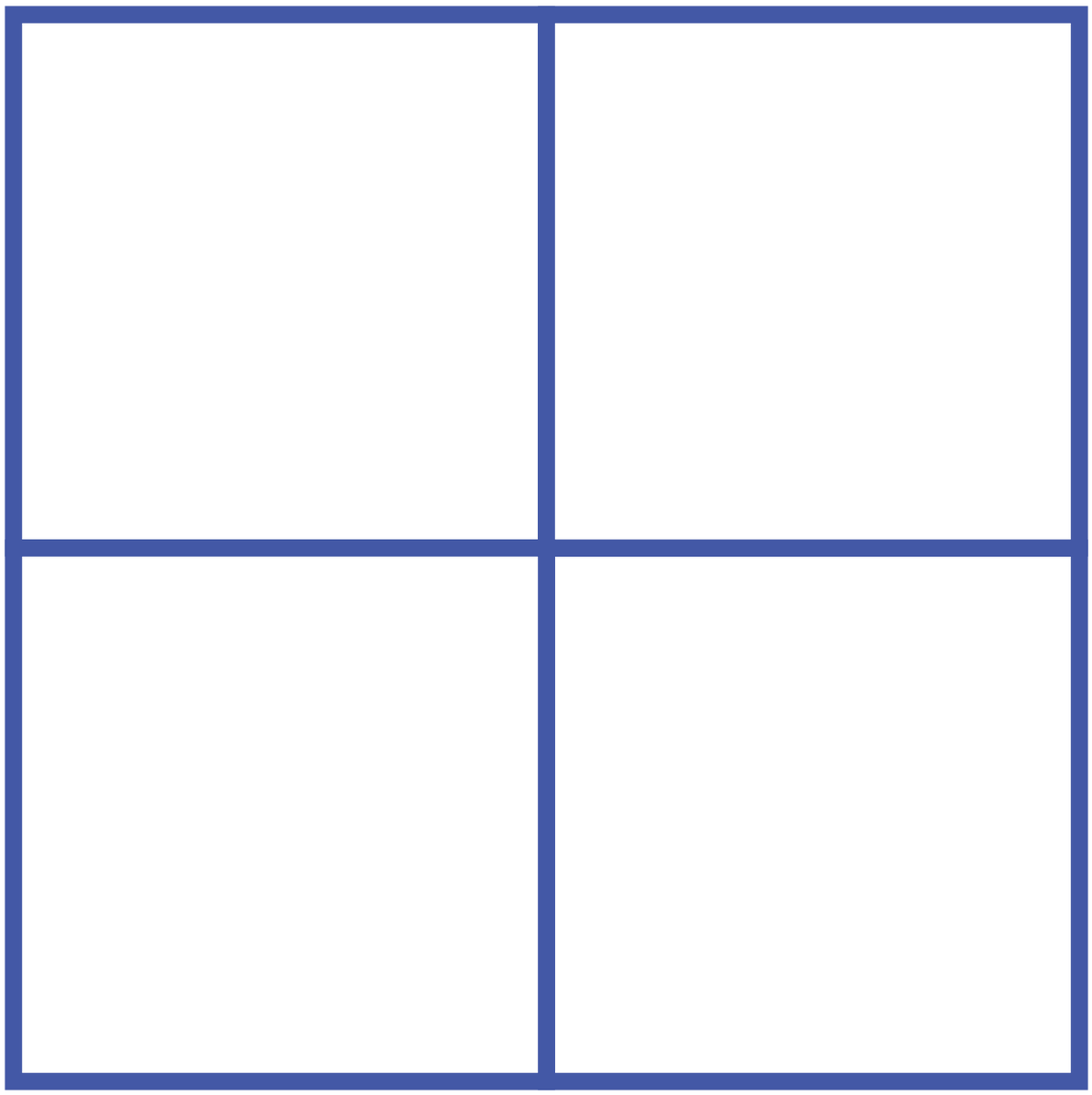
December 31 (morning)	
Adelaide	7:00 a.m.
Brisbane	6:30 a.m.
Darwin	6:00 a.m.
Perth	4:30 a.m.
Sydney	7:30 a.m.

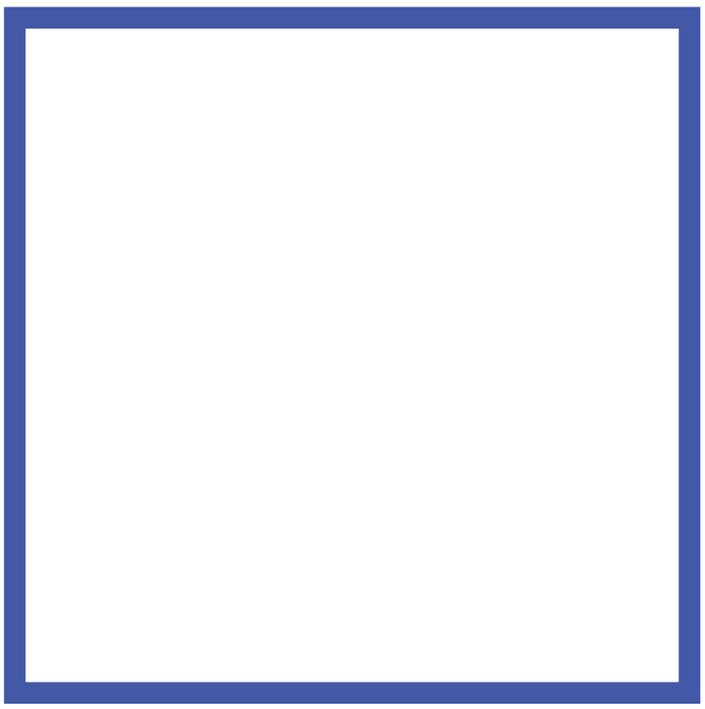


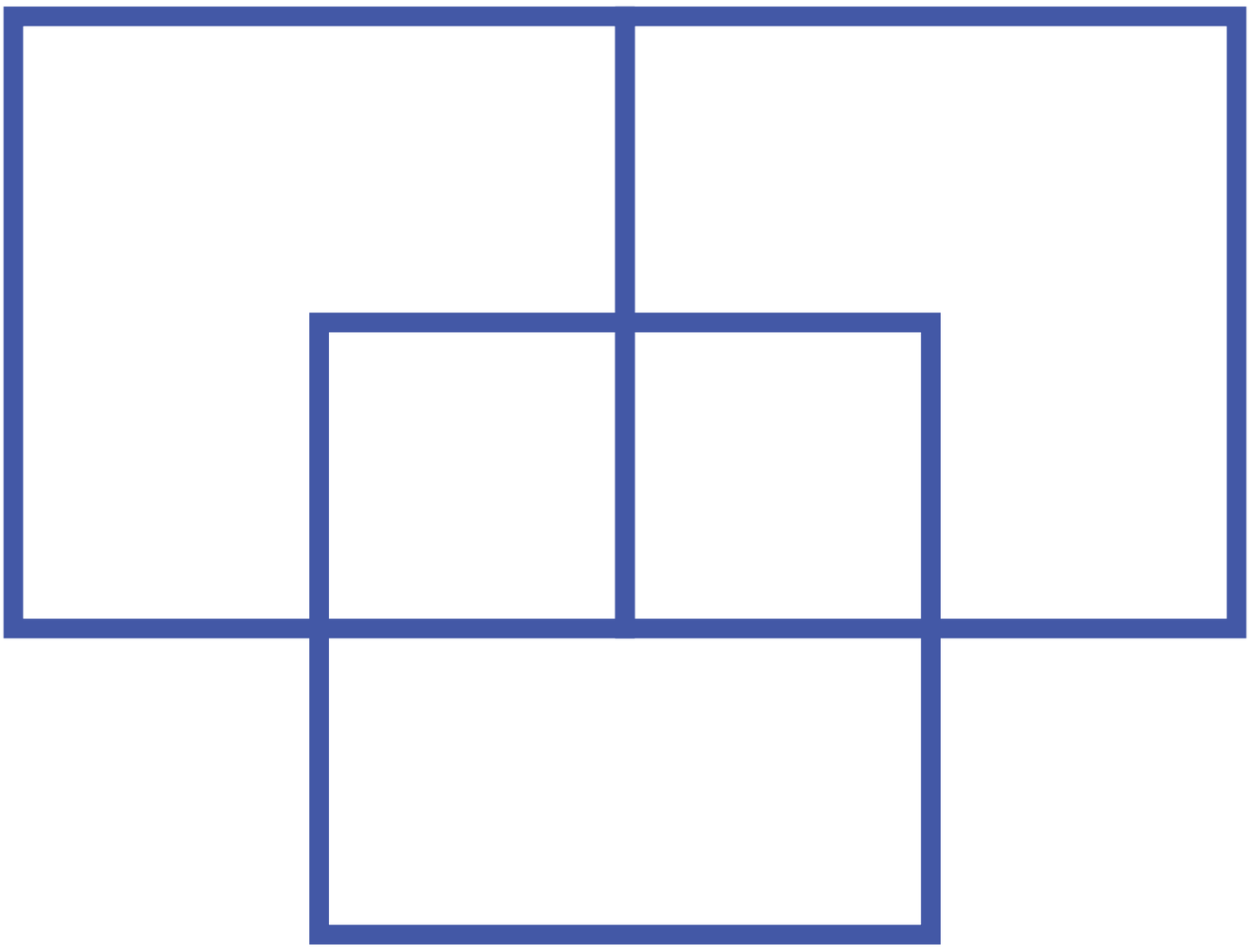


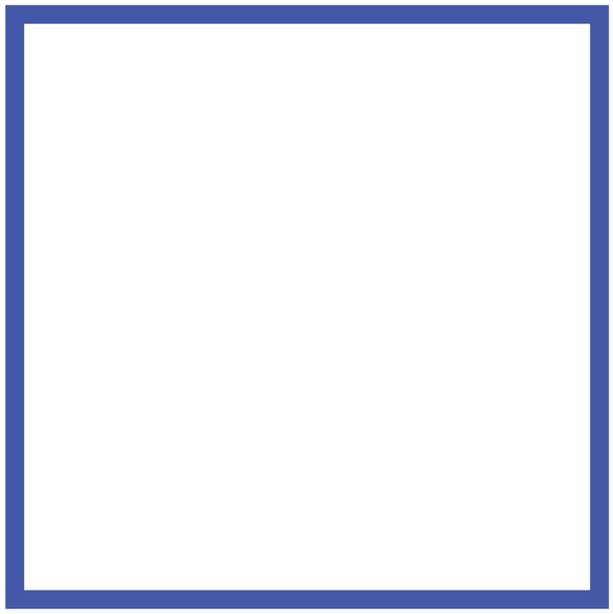


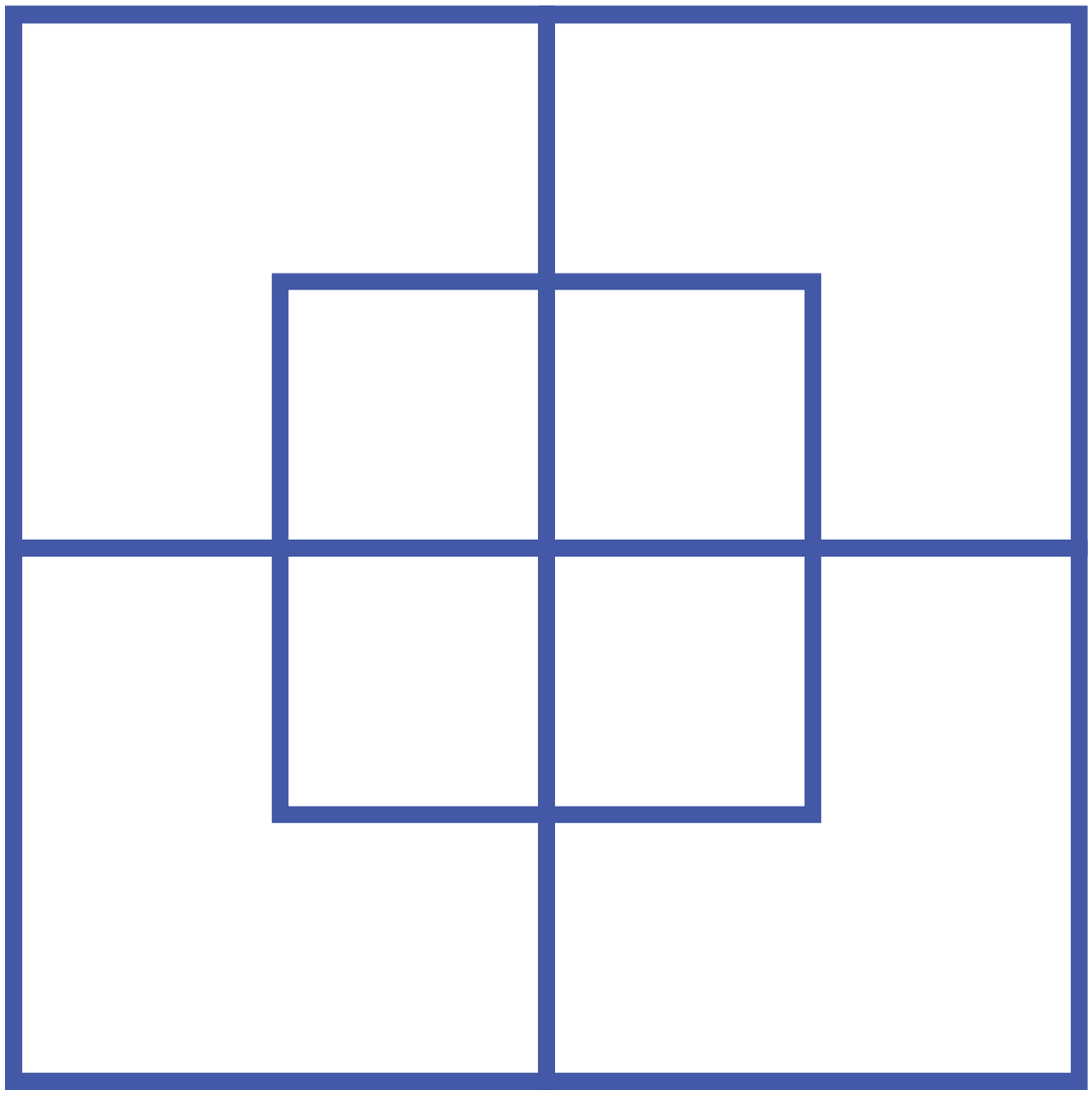


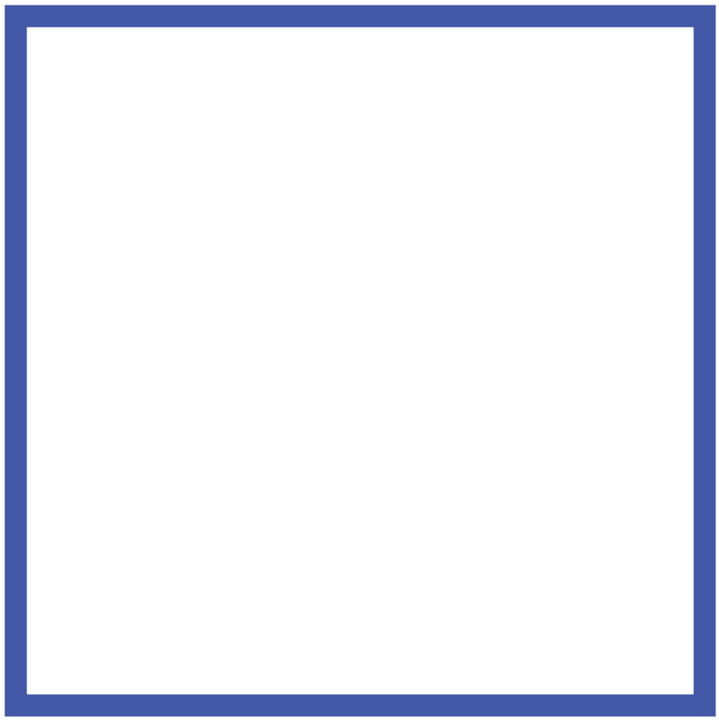


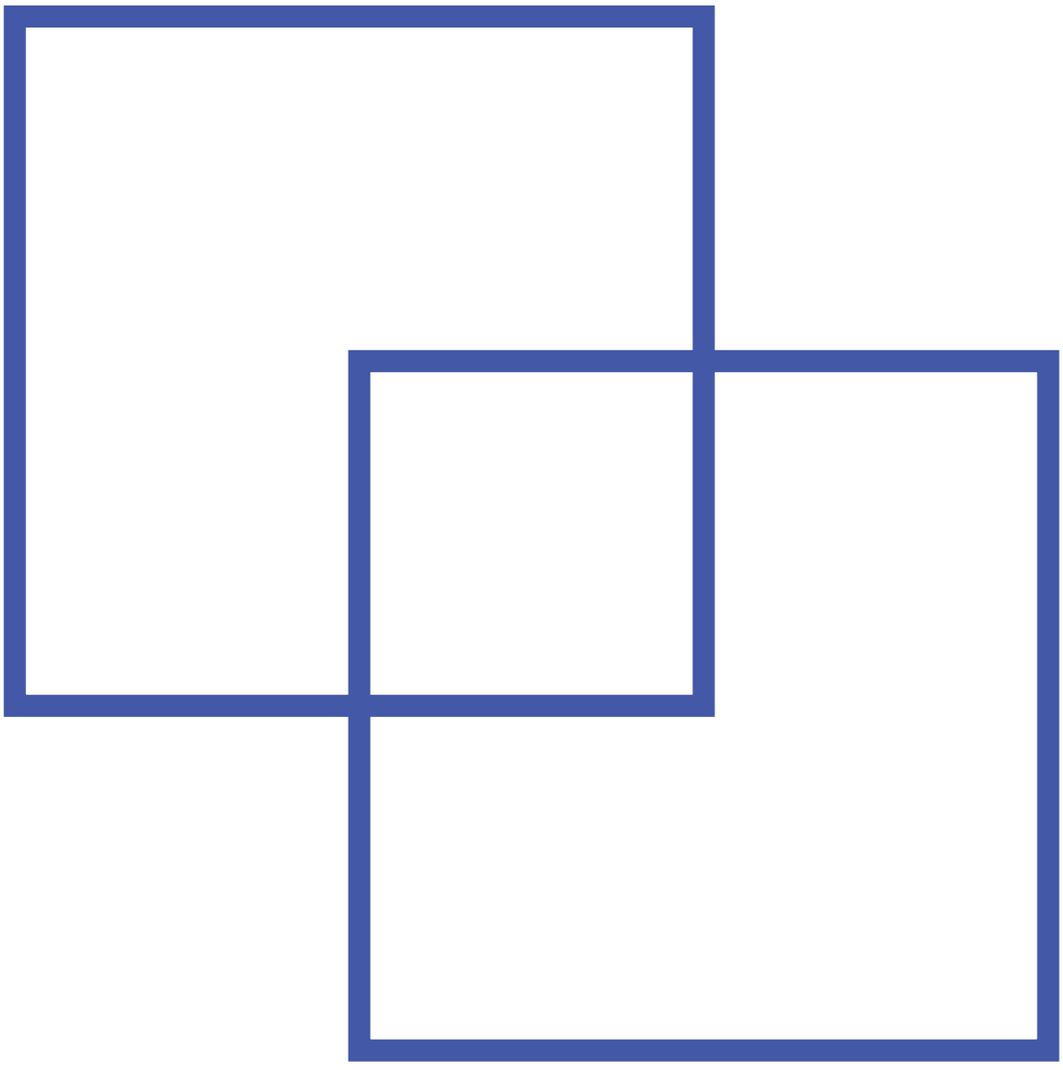


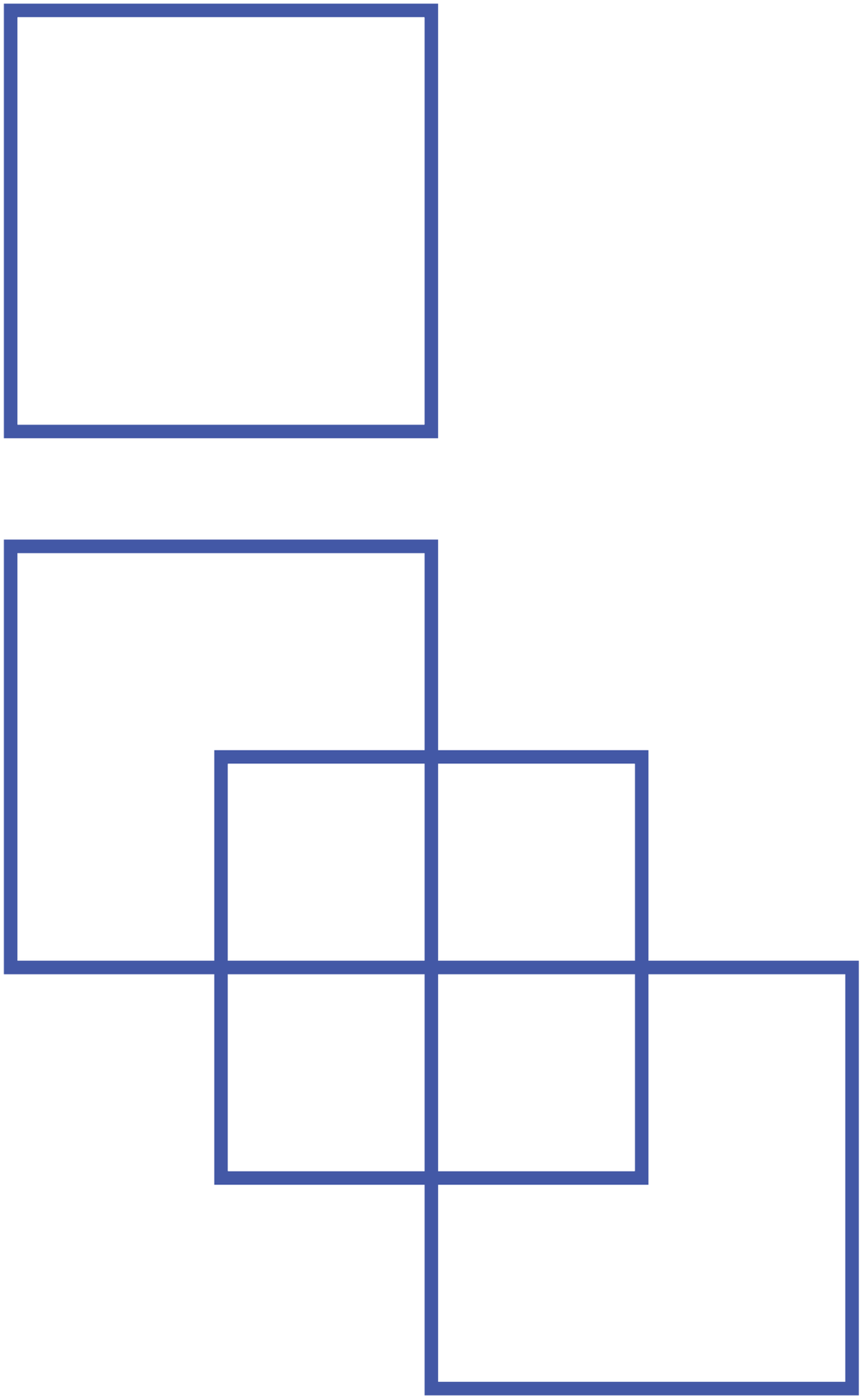


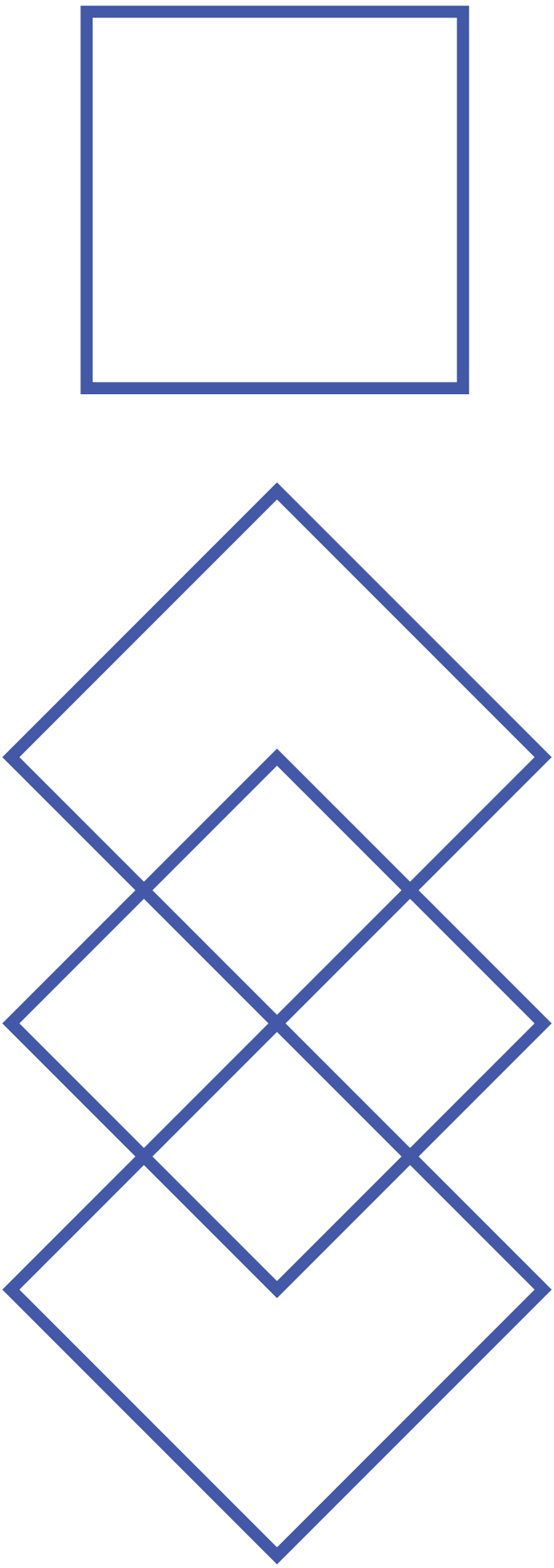


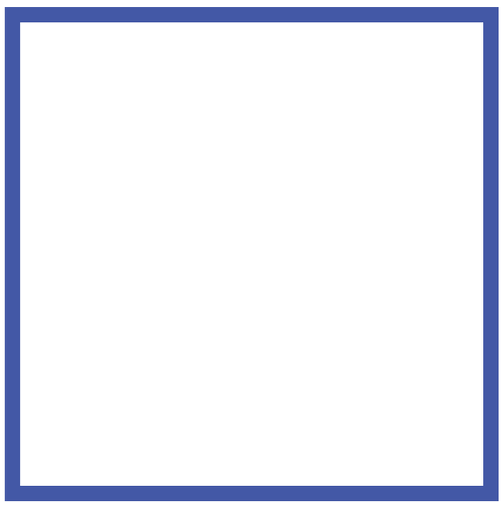


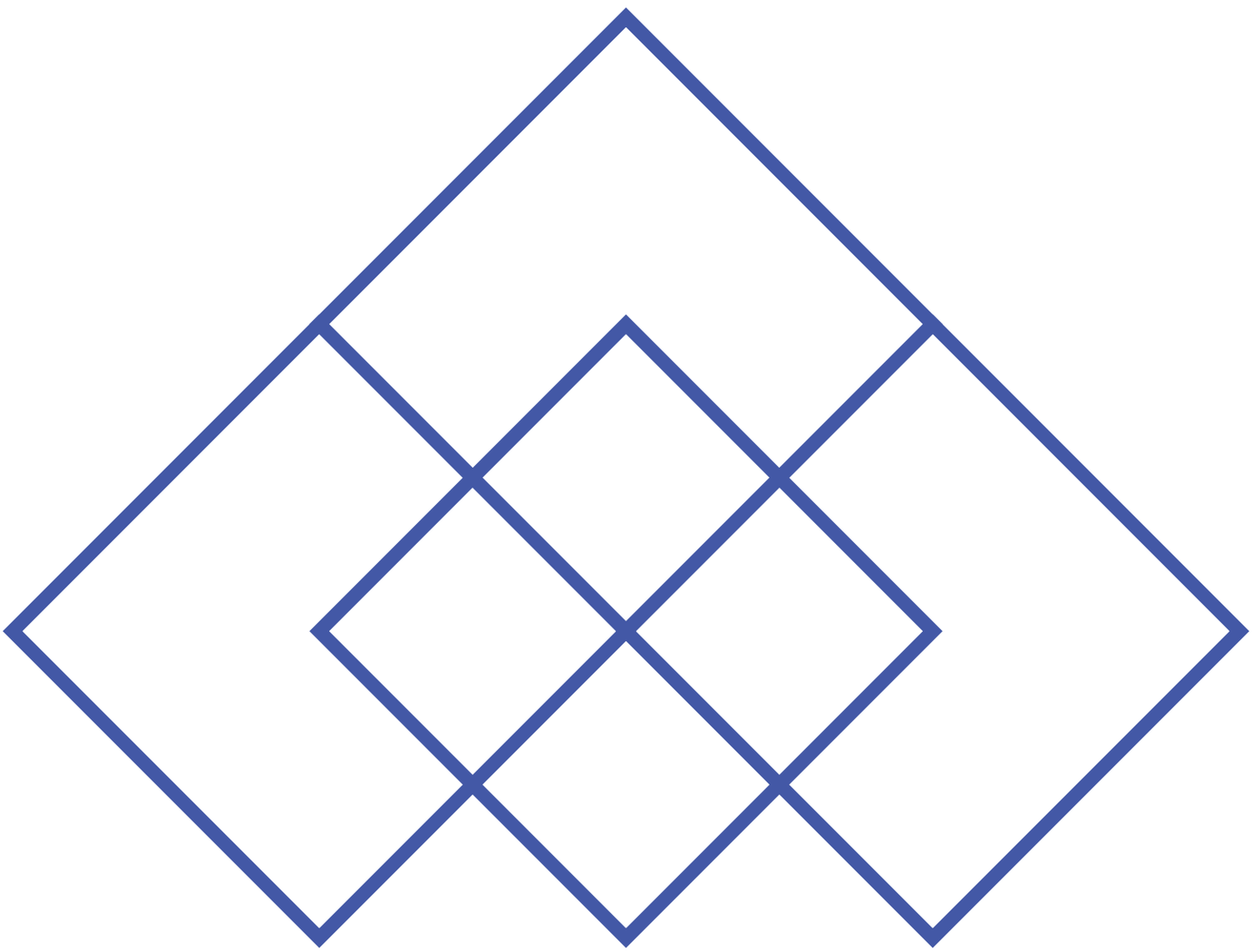


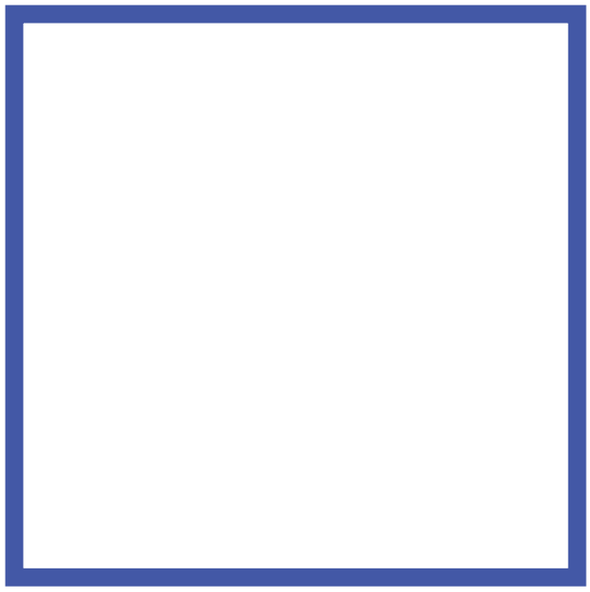


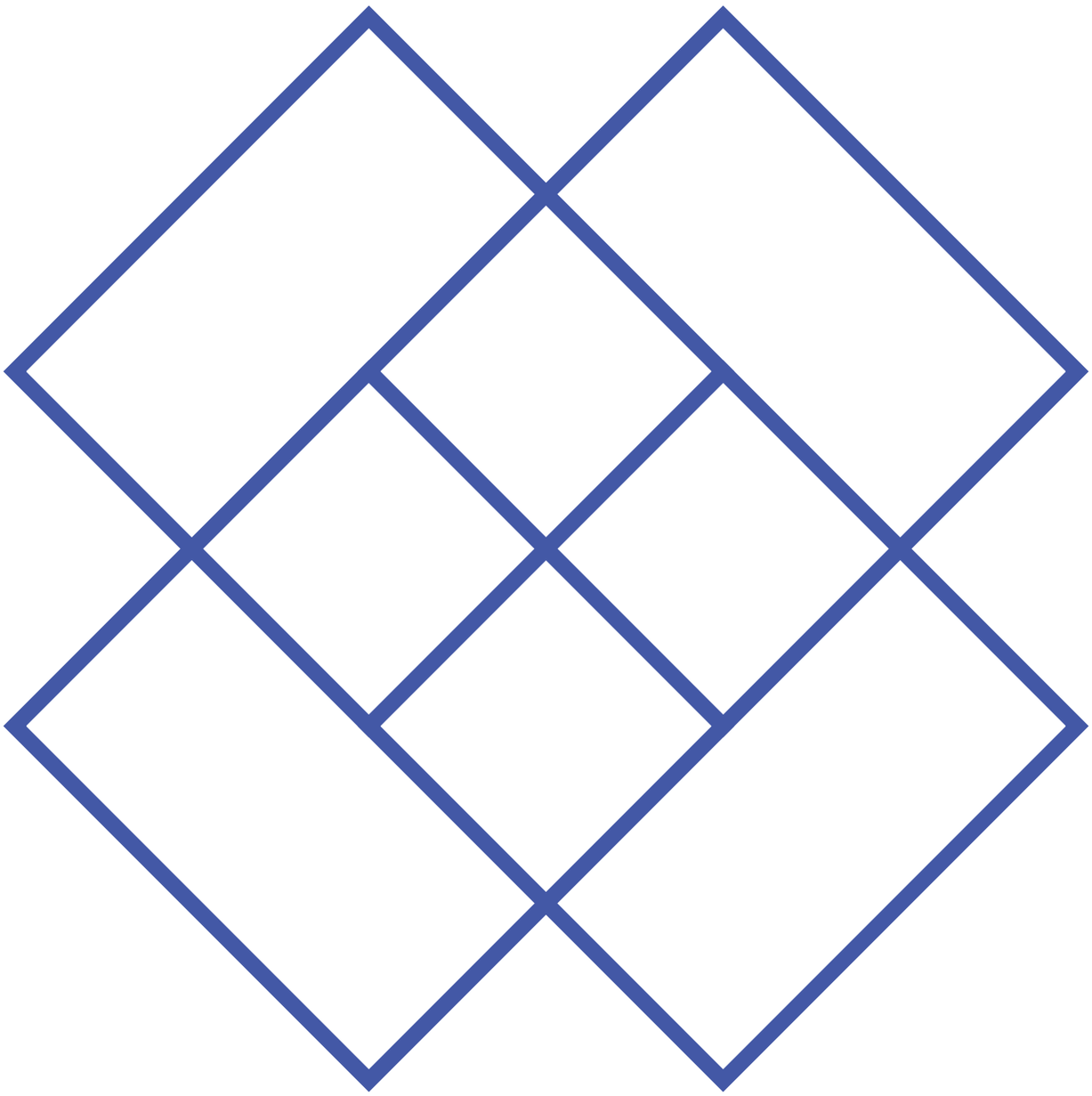












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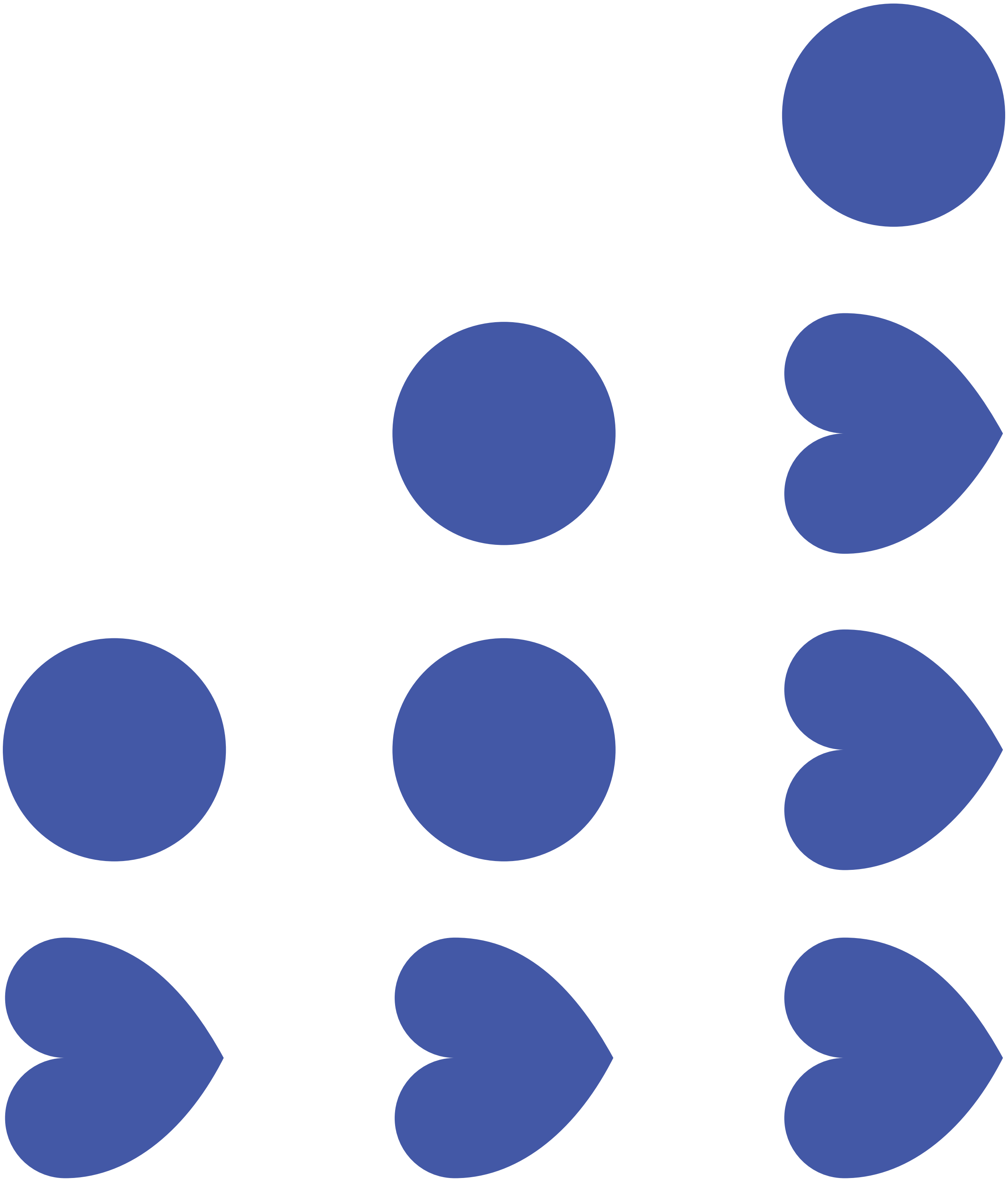

4

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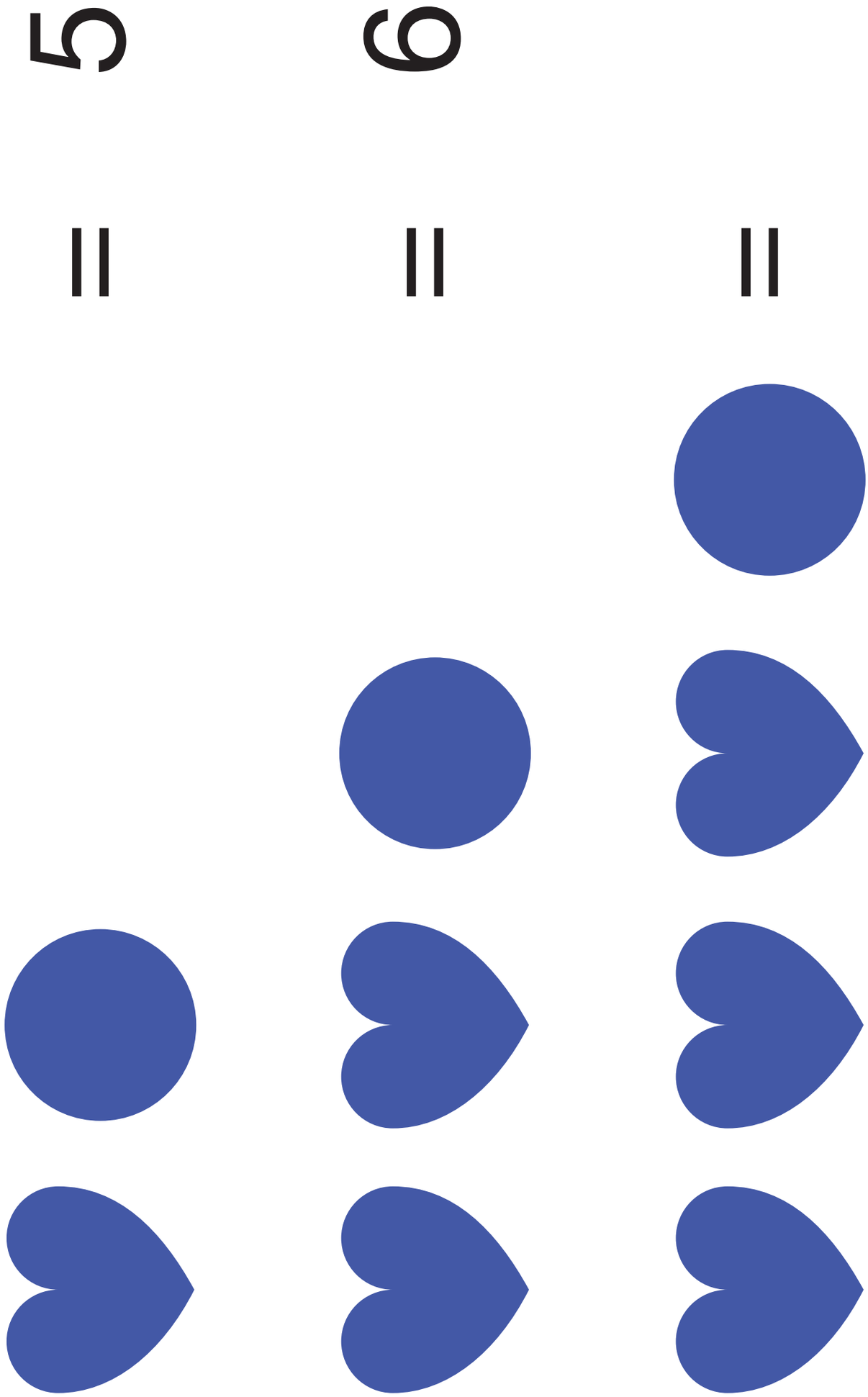
II

II

II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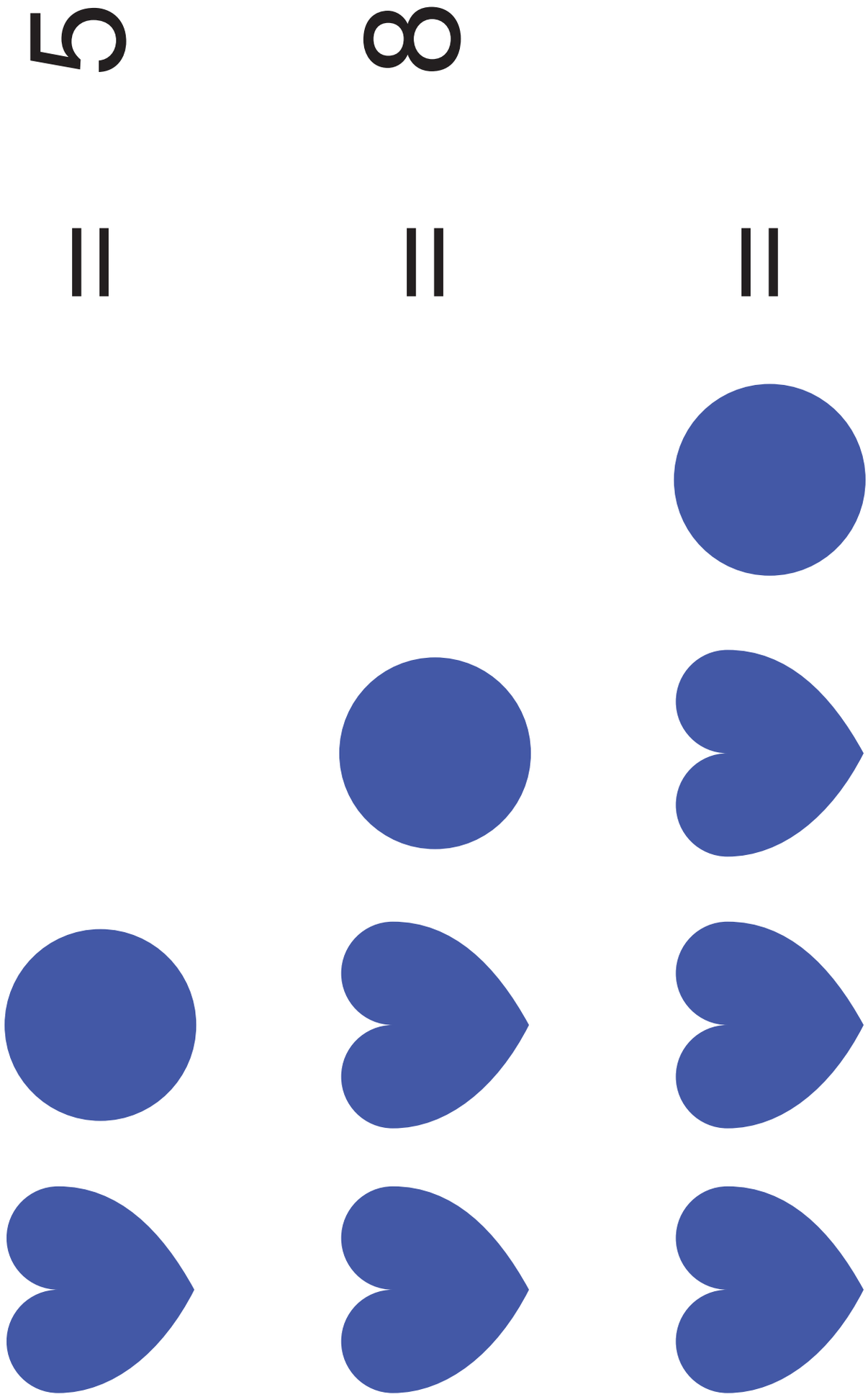
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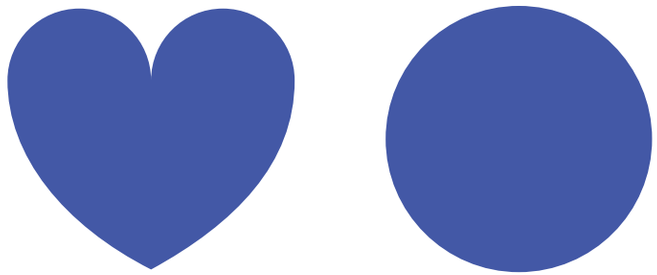

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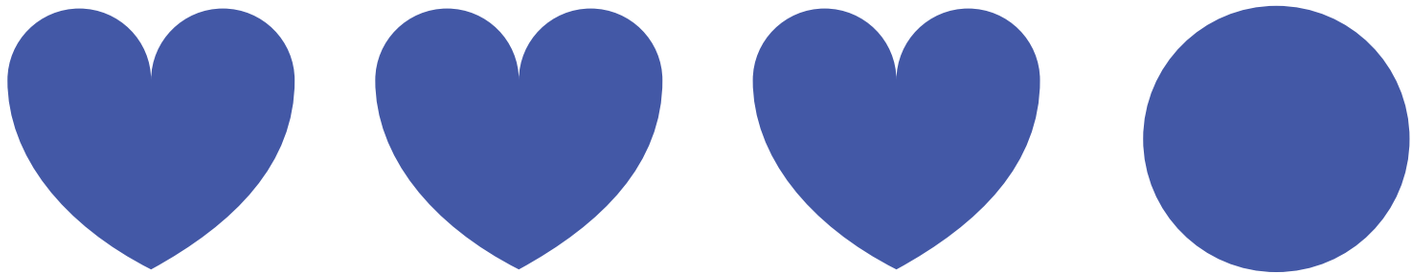

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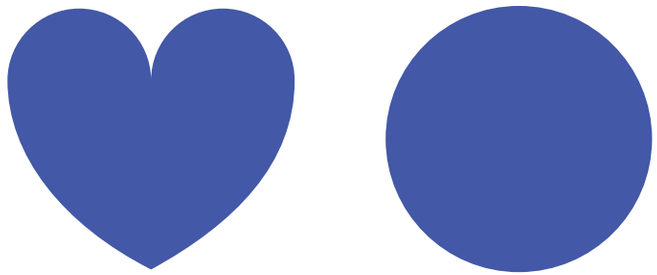

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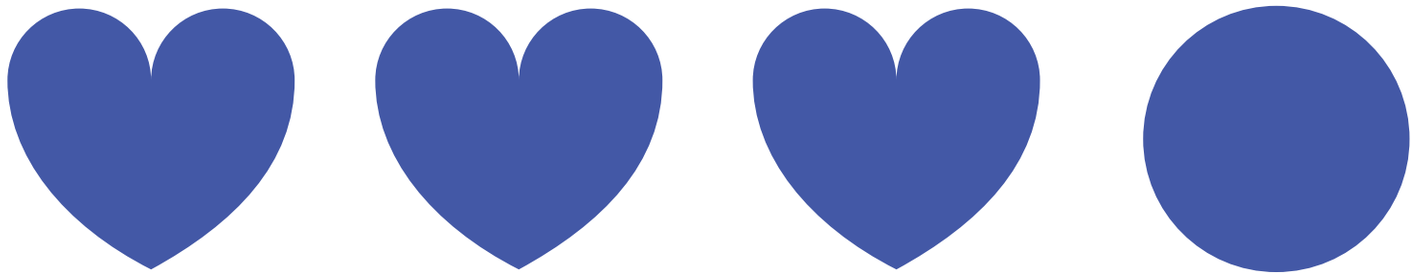

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Blackline Master – 14VR.17

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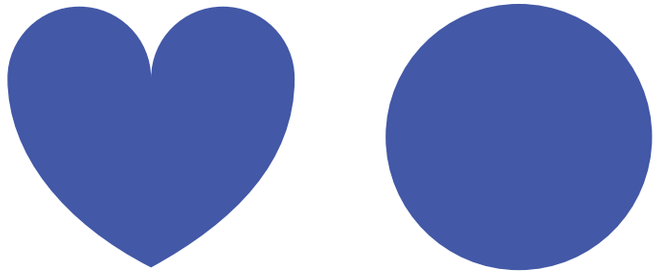

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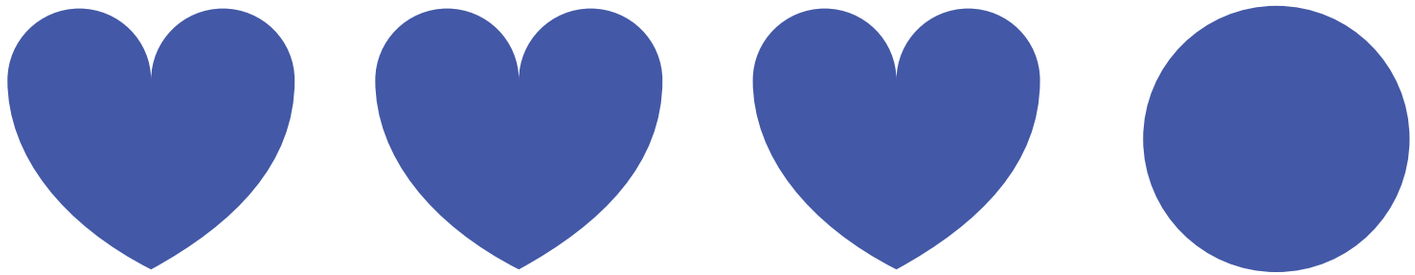

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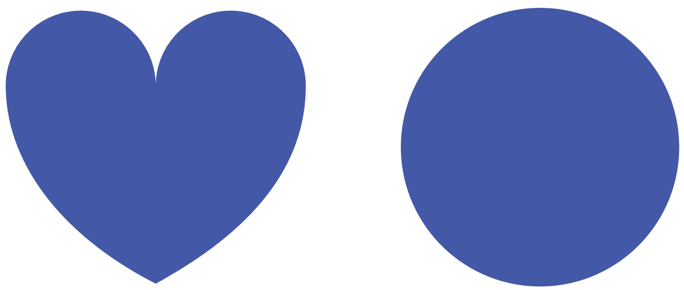
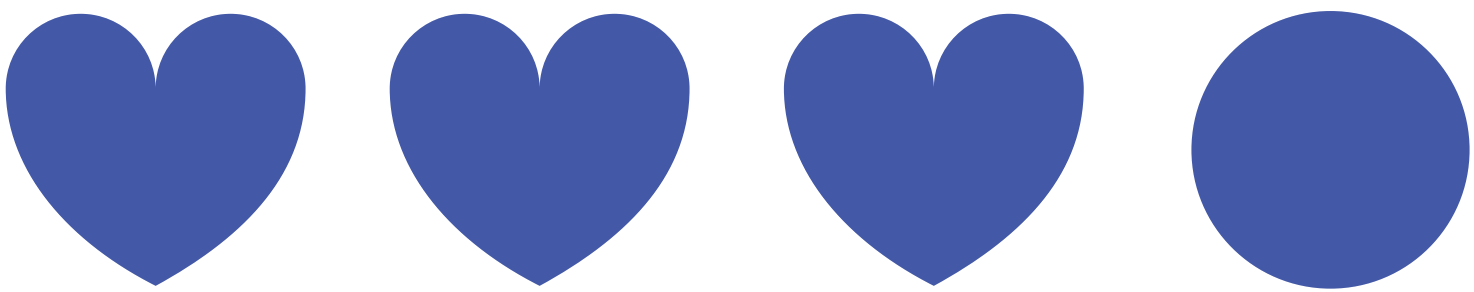
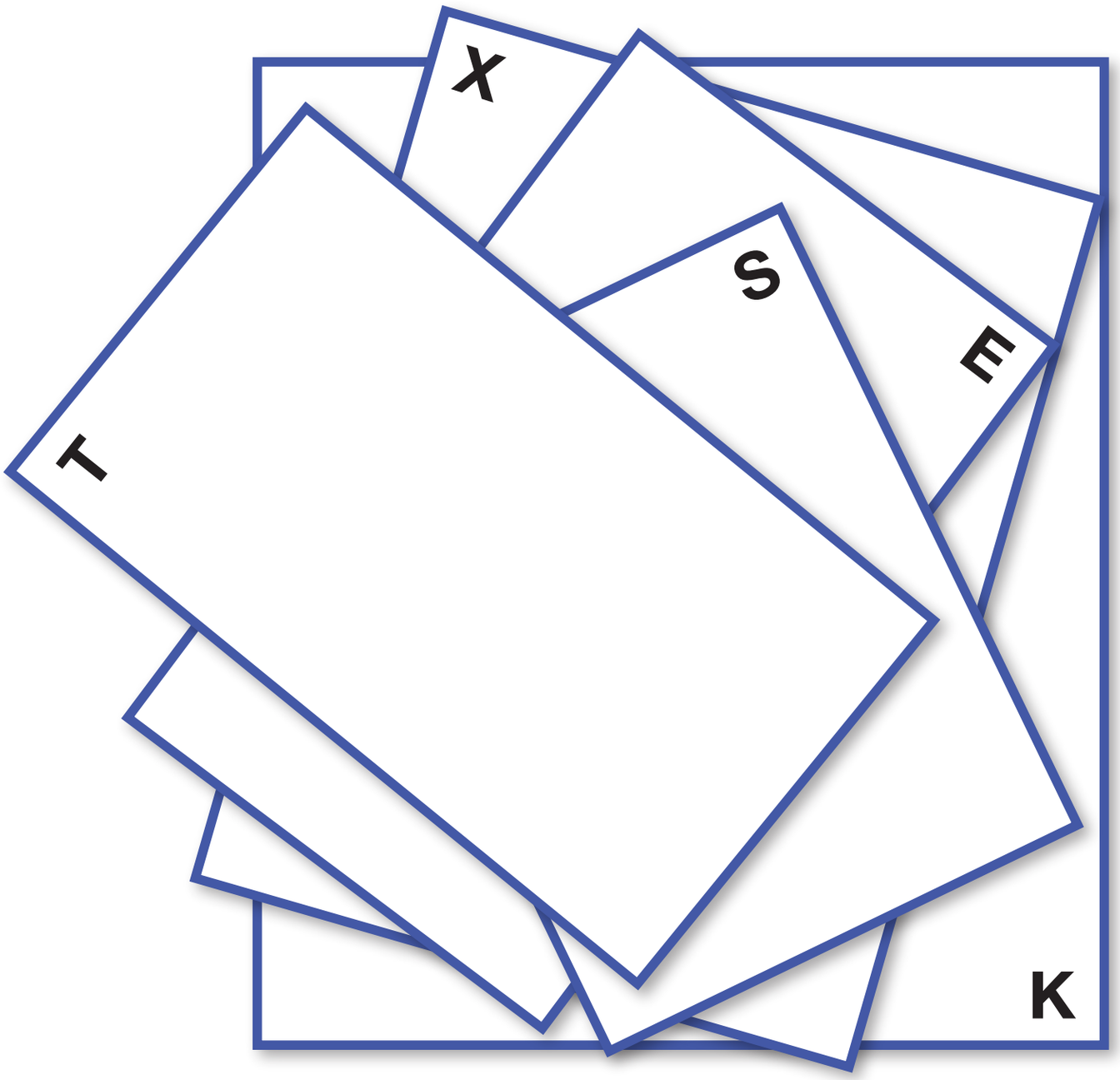
 = 5

 = 11


X
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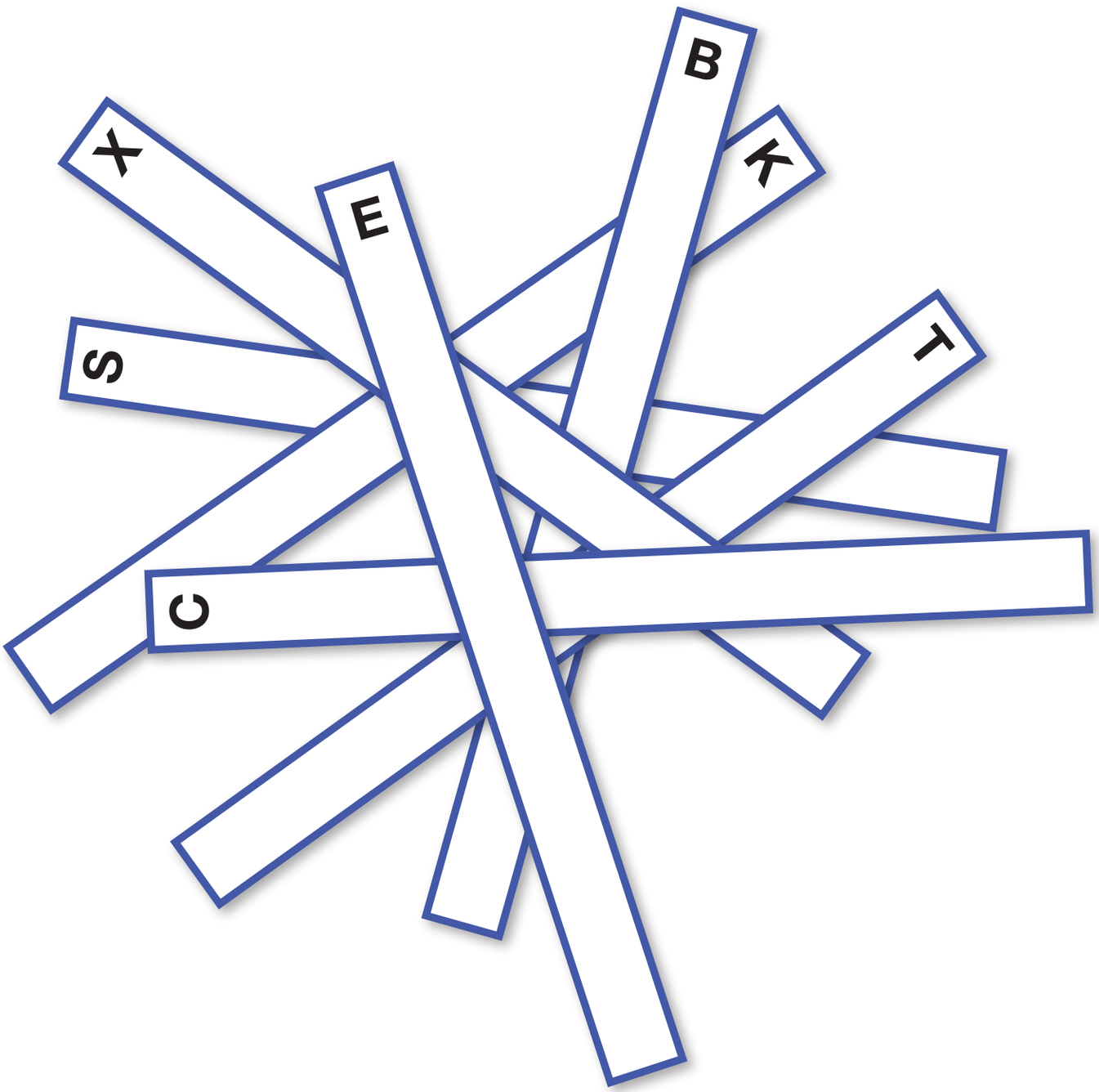
K


X
E
B
K
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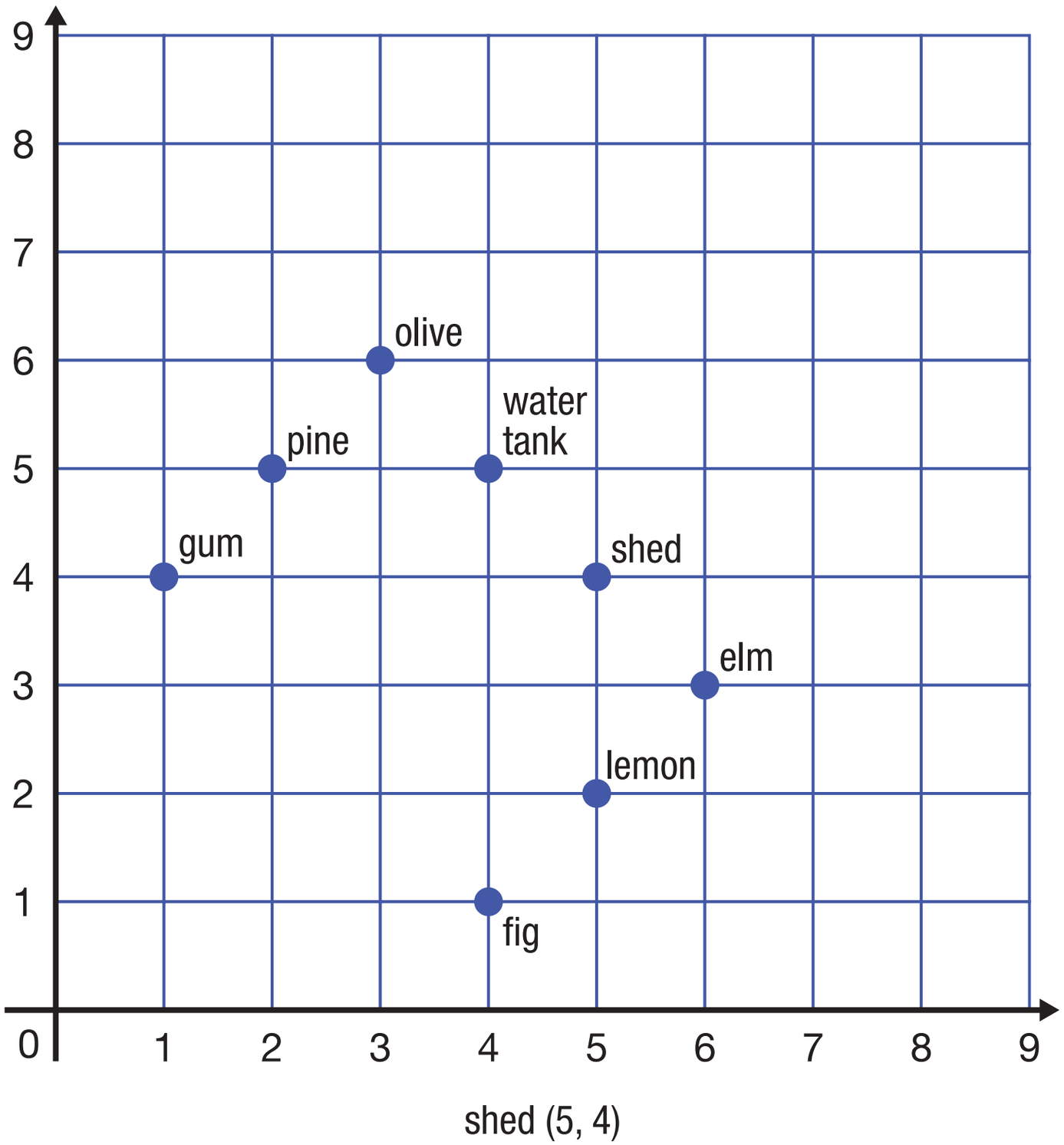
C


9
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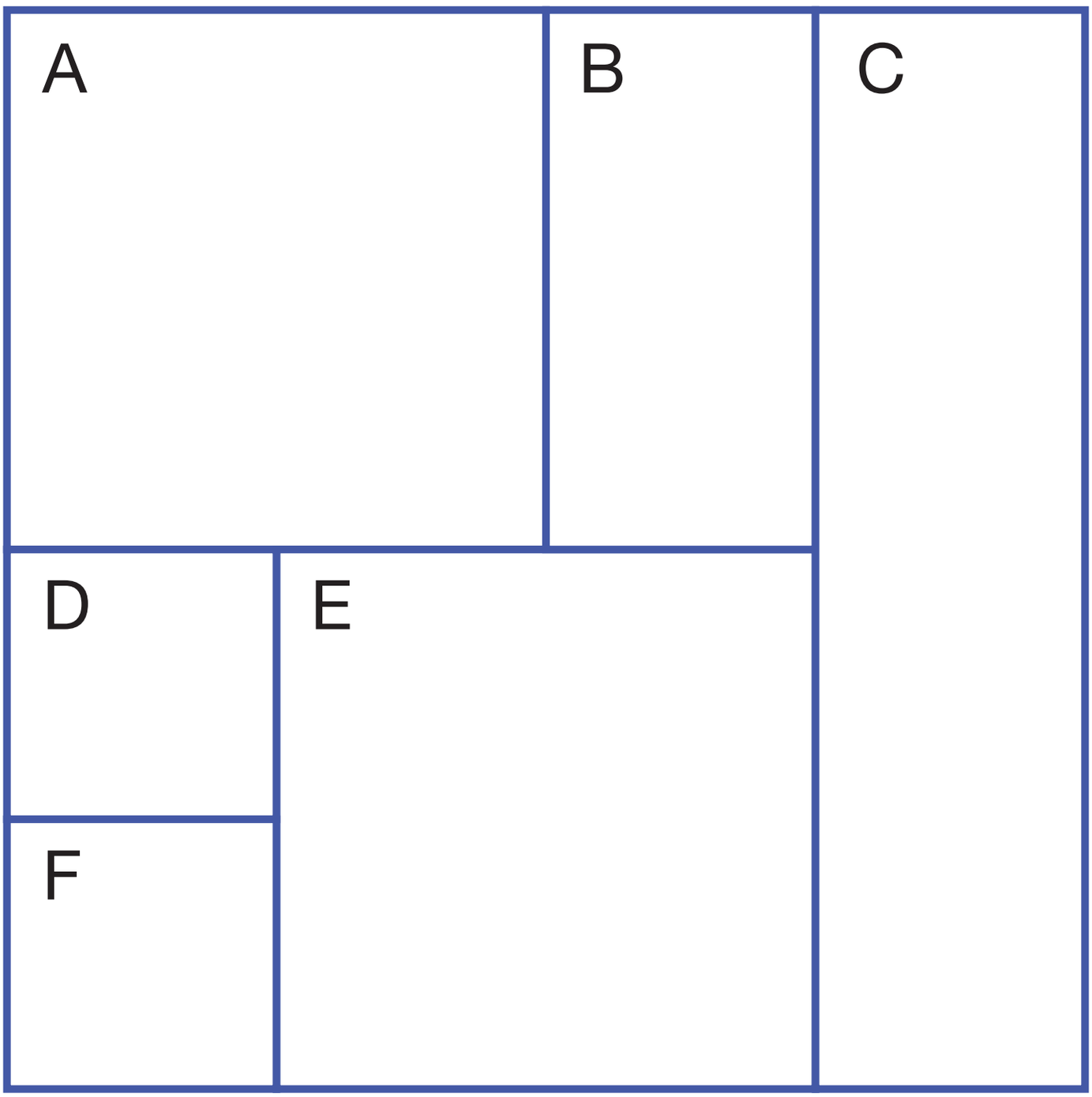
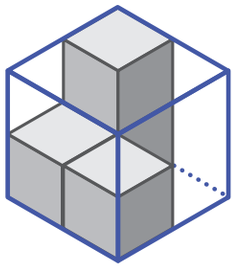
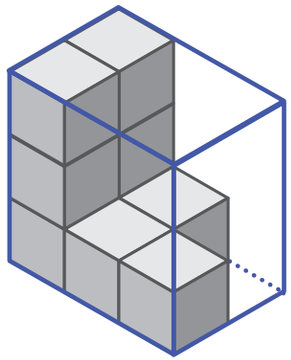
olive
water tank
pine
gum
shed
elm
lemon
fig

shed (5, 4)


A
B
C
D
E
F



A



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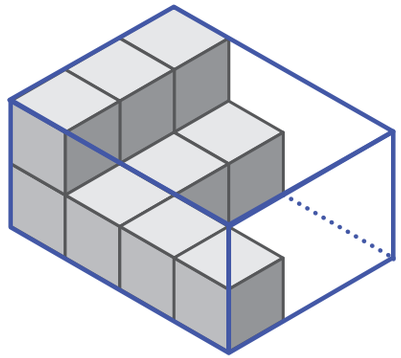

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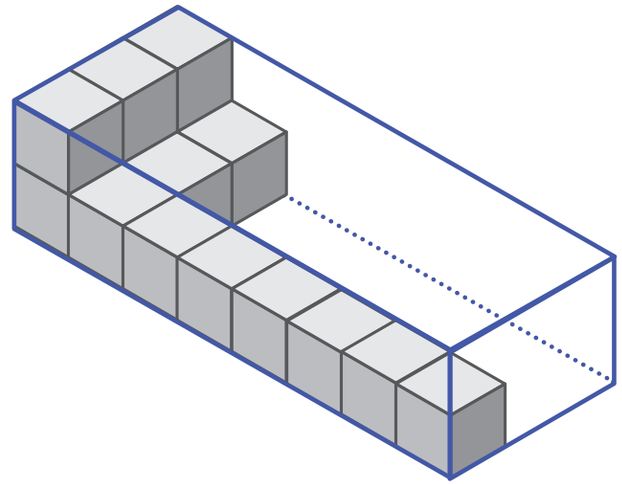
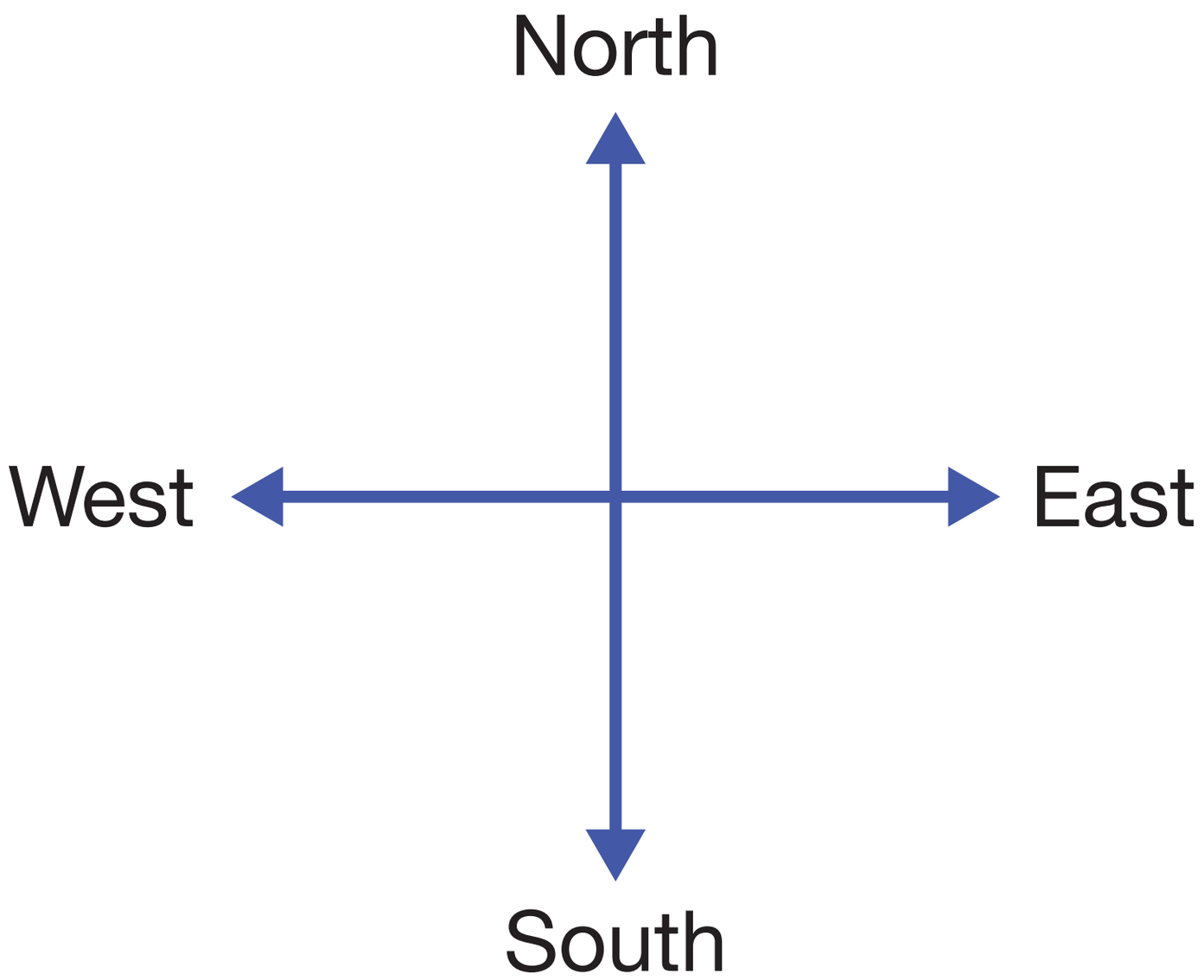


D

Blackline Master – 14VR.25

12


North
West
East
South

Book Week Scoring

1st book	1 point
Each book after 1st	2 points

Blackline Master – 15PS.03

Book Week Scoring

1st book	1 point
2nd book	2 points
Each book after 2nd	3 points

Blackline Master – 15PS.04