

$$-7()+1$$
 0 () -5

$$0 \ (\) \ -5$$

$$-5$$
 () -7 - 7()

$$-7()-5$$

$$-5()0$$

$$11 \bigcirc 0$$

$$6) -3$$

$$6) + 10$$

$$-7()$$
 -3

$$11 \bigcirc \epsilon$$

$$0 \bigcirc -5 - 3 \bigcirc$$

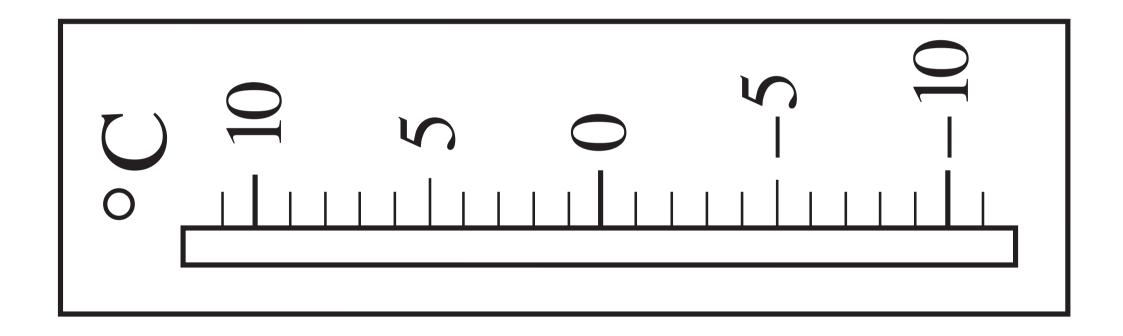
$$-3()+10$$

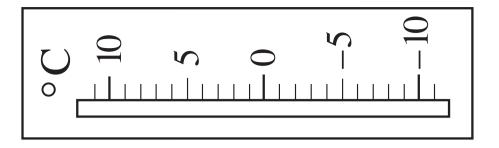


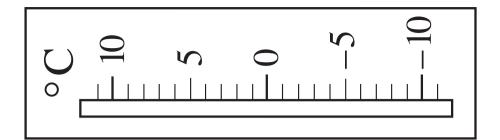


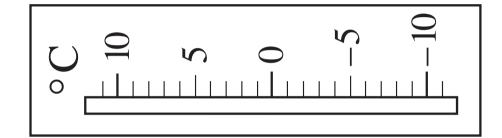
LP 42/1

v =

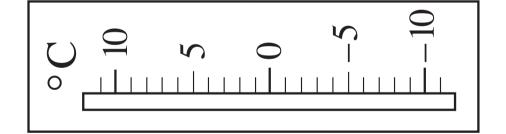


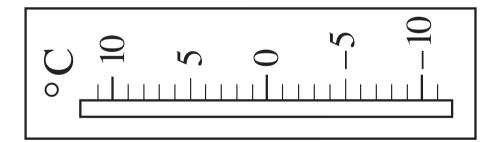


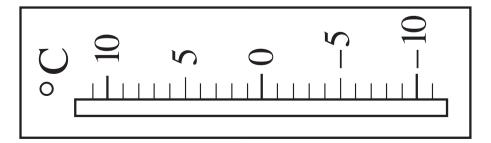


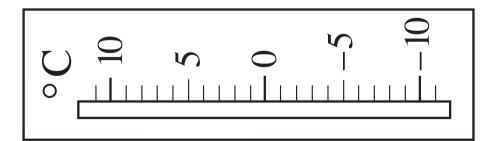




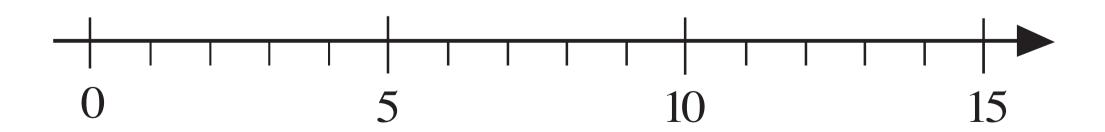


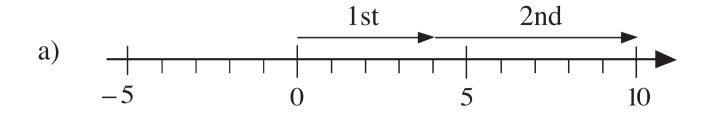


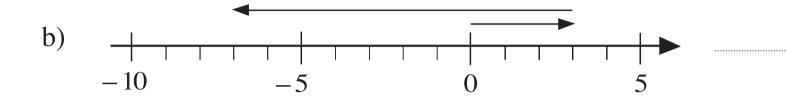


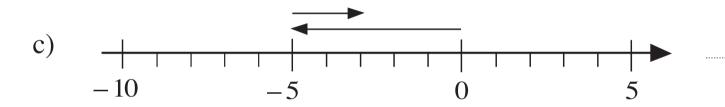


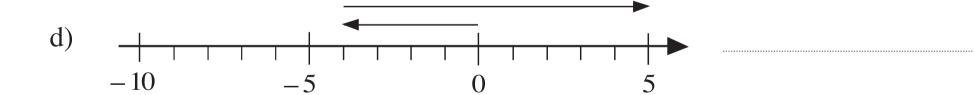


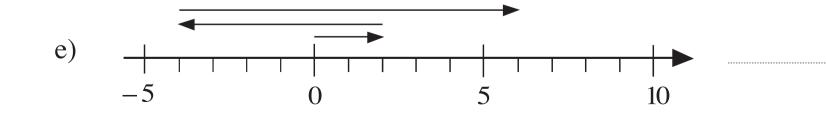












a)
$$5 + \boxed{} = 9$$



b)
$$-7 + \boxed{} = -9$$



c)
$$+(-3) = -10$$



d)
$$-3 +$$
 $+(-5) = 2$



e)
$$5 + (-3) + \boxed{} = 0$$



f)
$$3 + (-5) + \boxed{} = 6$$



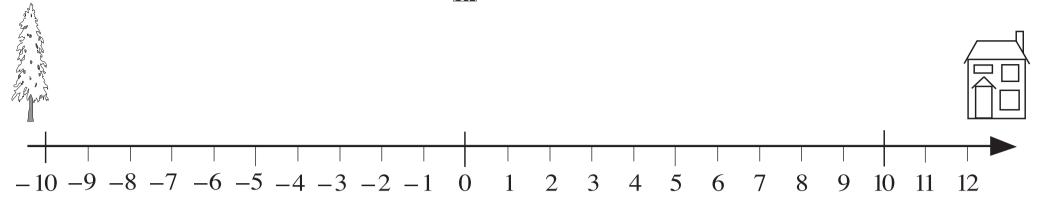
LP 43/5

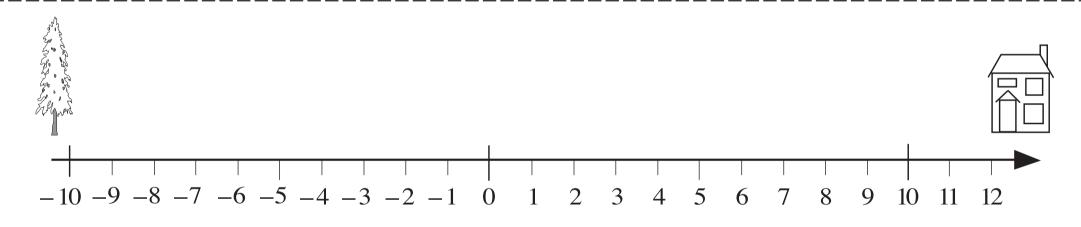
a) (1) (1) (1) (1) (1) (1)

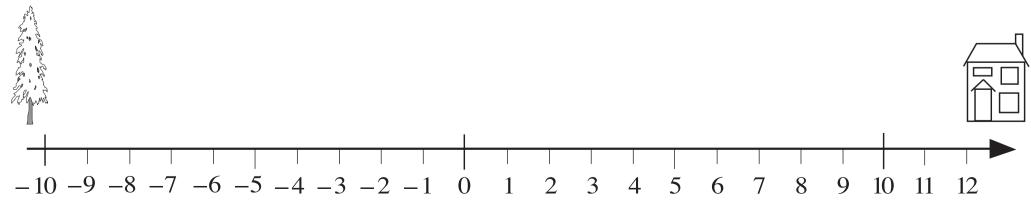
-1 -1 -1

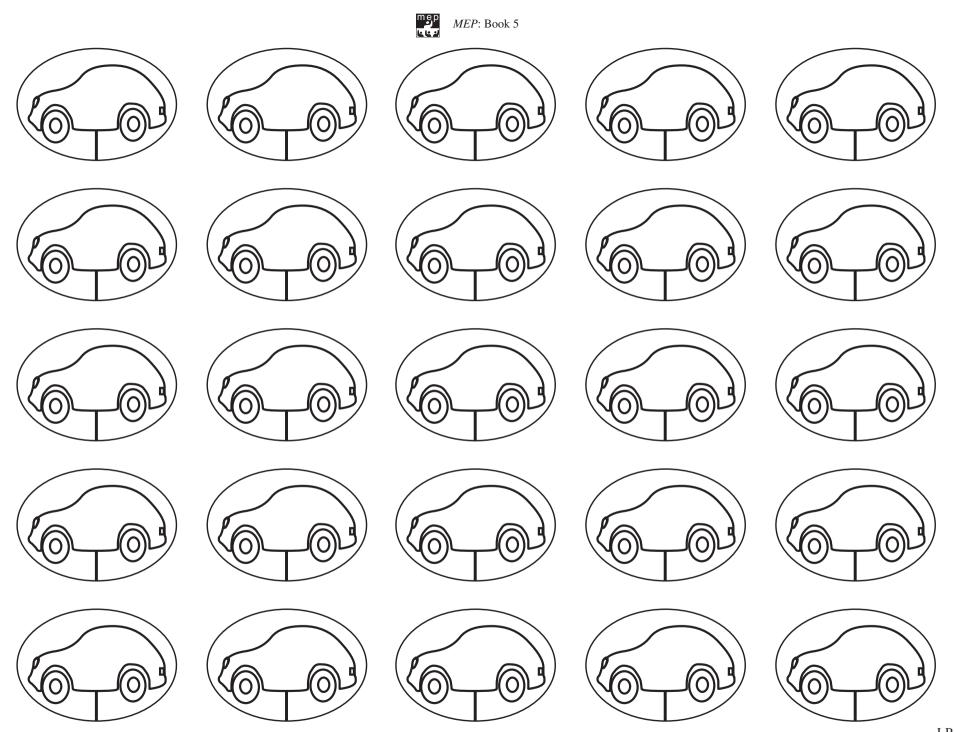
b) ① ① ① ①

(1) (1) (1) (1) -1 -1 -1 -1



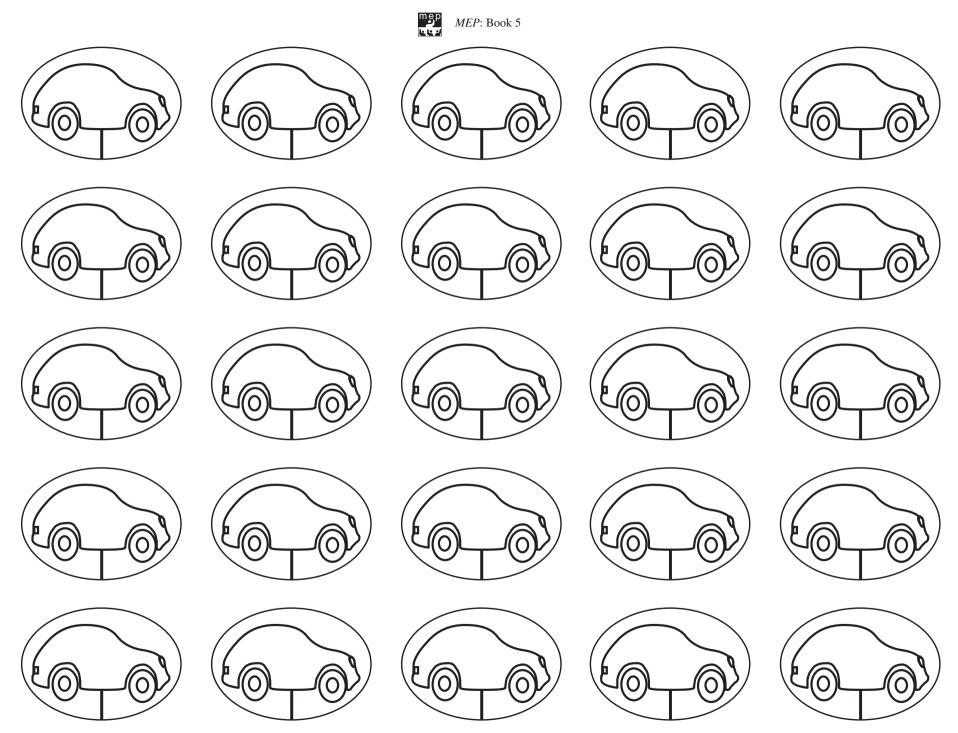




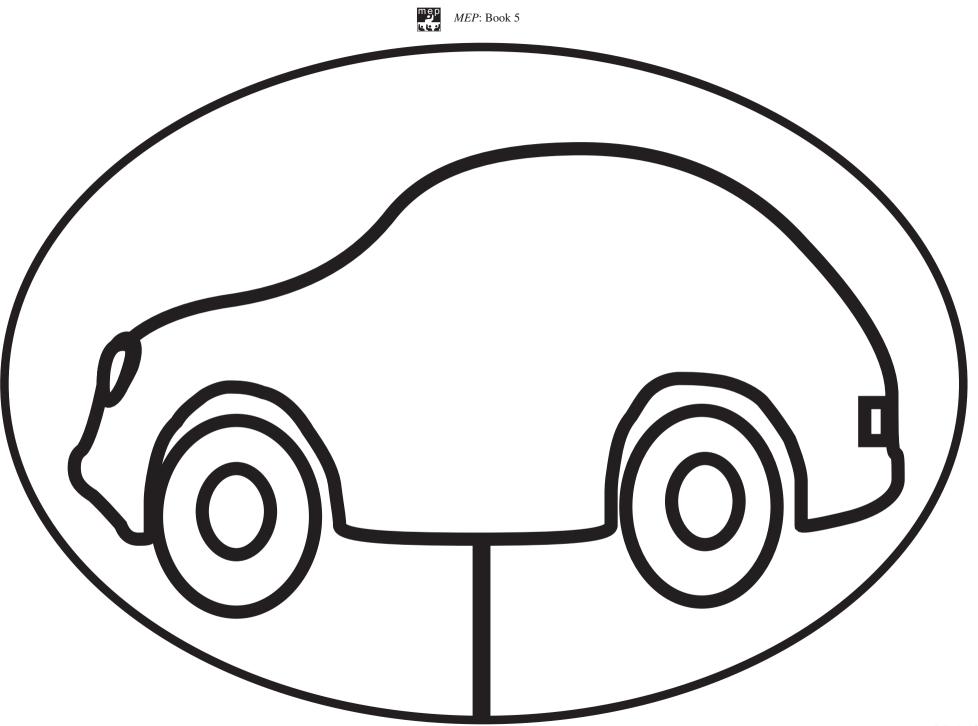


1 sheet per 25 Ps. Stick back-to-back with LP 44/6iii

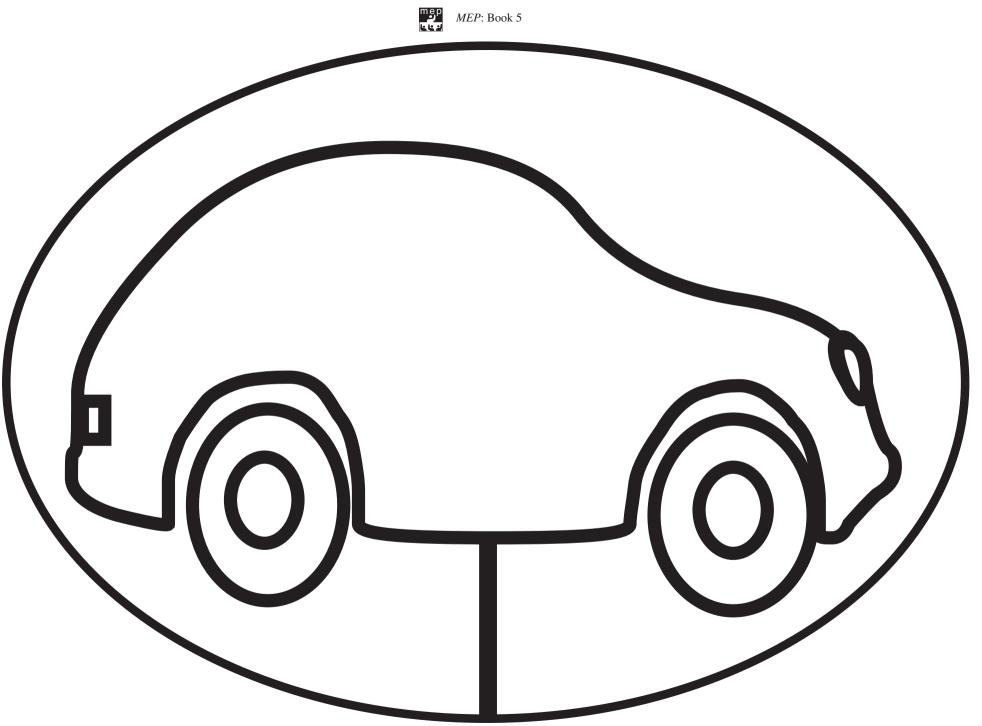
LP 44/6ii



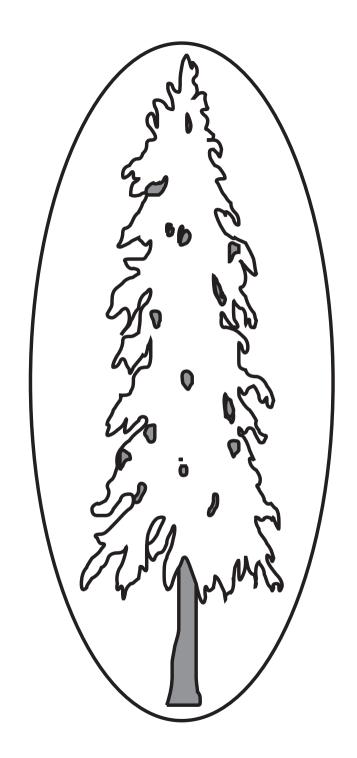
1 sheet per 25 Ps. Stick back-to-back with LP 44/6ii

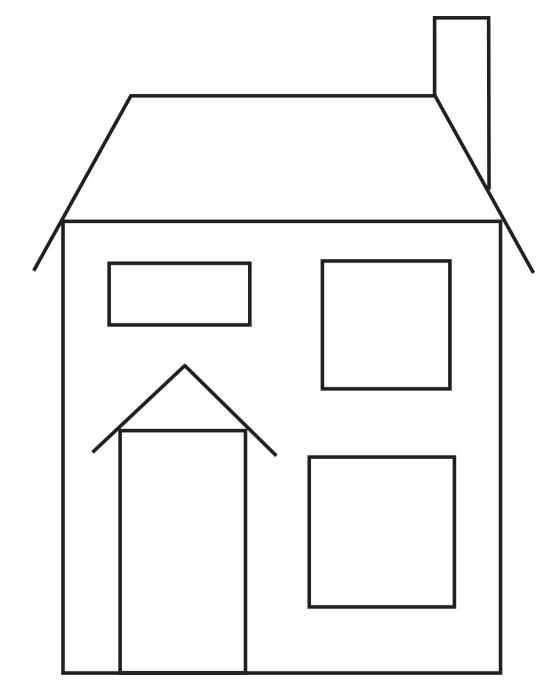


Stick back-to-back with LP 44/6v



Stick back-to-back with LP 44/6iv



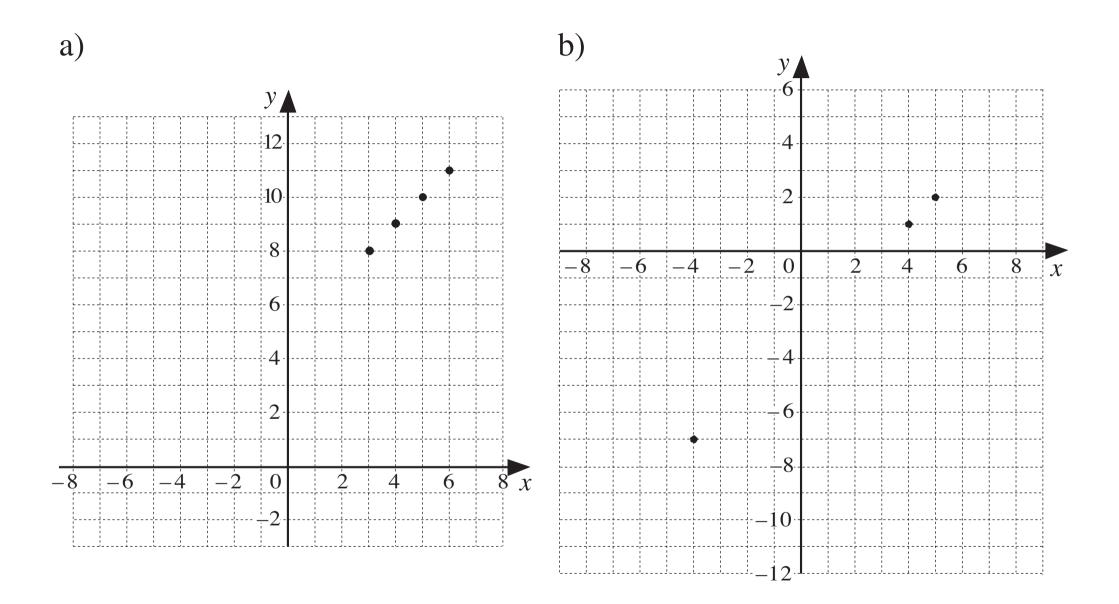


-15 -14 -13 -12 -11 -10	-9 -8 1 1	-7 I	-6 I	-5 I	-4 I	-3 	-2 I	-1 	0	1 	2	3	4 1	5 1	6 1	7 I	8 1	9 1	10 	11 	12 	13 	14 	15
-15 -14 -13 -12 -11 -10	-9 -8		-6	 -5	 -4	-3	 -2	 -1	0	1	1 2	3	1 4	5	6	T 7	1 8	9	10	11	1 12	13	14	15
-15 -14 -13 -12 -11 -10	-9 -8 1 1	-7 I	-6 I	-5 I	-4 - I	-3 	-2 I	-1 I	0	1 	2	3	4 1	5 I	6 1	7 I	8 I	9 1	10	11 	12 	13 	14 	15
-15 -14 -13 -12 -11 -10	-9 -8	-7	-6	 -5	 -4	-3	 -2	 -1	0	1	2	3	1 4	5	6	7	8	9	10	11	12	13	14	15
-15 -14 -13 -12 -11 -10 1 1 1 1 1	-9 -8 1 1	-7 I	-6 I		-4 - I				0	1 	2	3	4 I	5 I	6 1	7 I	8 I	9 1	10	11	12 	13 	14 	15
-15 -14 -13 -12 -11 -10	-9 -8	-7	-6	-5	 -4	-3	 -2	 -1	0	1	2	3	1 4	5	6	7	8	9	10	11	12	13	14	15
-15 -14 -13 -12 -11 -10																								$\overline{}$
	-9 -8 1 1	_7 	-6 I	-5 	_4 	-3 	-2 I	-1 I	0	1 	2	3	4	5 	6 1	7 I	8 1	9 1	10 	11 	12 	13 	14 	15
-15 -14 -13 -12 -11 -10	1 1			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	2 1 2	3	<u> </u>	5 1 5	<u> </u>	7 1 7	8 1 1 8	<u> </u>	<u> </u>	<u> </u>	12 	<u> </u>	<u> </u>	
	1 1 -9 -8	 -7	 -6	-5 -5	 -4 -	-3 -3	 -2	 -1	0	1	1 2	3	1 4	1 5	1 6	1 7	1 8	 	10	11	<u> </u>	1 13	 	1 15

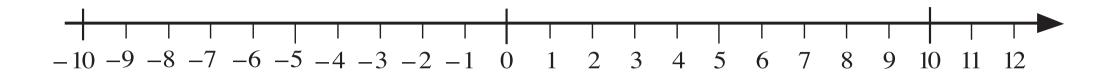
$$(+5) + (+6) = \boxed{11}$$
 $(+5) + (+1) = \boxed{(+5) + (-4) = \boxed{(+5) + (-5) = \boxed{(+5) +$

$$(+5) + (+3) =$$
 $(+5) + (-2) =$ $(+)5 + (-7) =$ $(+5) + (+2) =$ $(+5) + (-3) =$ $(+5) + (-8) =$

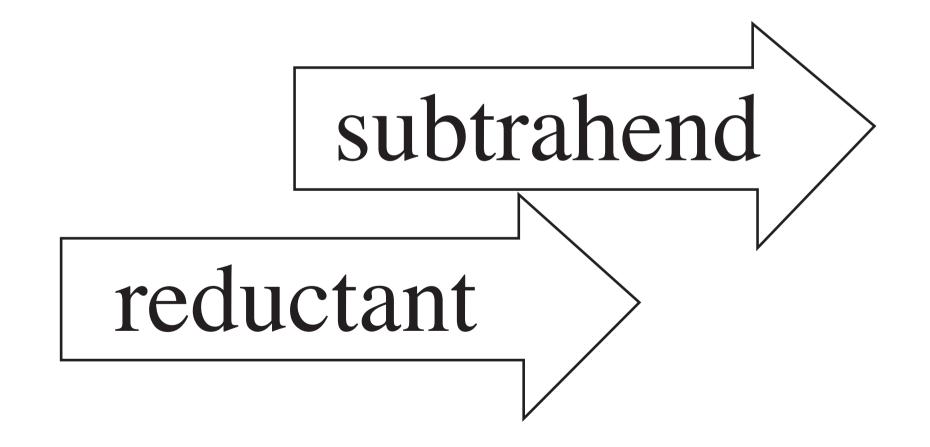
$$(-3) + (+2) =$$
 $(-3) + (-3) =$ $-3 + (-8) =$ $(-3) + (+1) =$ $(-3) + (-4) =$ -7 $-3 + (-9) =$







LP 45/5i



LP 45/5ii

	a) 3°0	C is greater than -6° C	by °C
— 10 — 9	So	3 - (-6) = 9	Check: $9 + (-6) = 3$
<u> </u>		~	. 0 ~
- 7 - 6	b) -6°(C is less than 3°C	by C
_ 5	So		Check:
— 4 — 3	c) 4	is less than 7	by
_ 2	So		Check:
$\begin{bmatrix} - & 1 \\ - & 0 \end{bmatrix}$.1) 7	:4414	1
1 2		is greater than 4	by
3	So		Check:
— - 4 — -5	e) -8	is less than -2	by
6	So		Check:
− −7− −8	f) -2	is greater than -8	by
	So		Check:

a) Sue's starting balance was £2, as she had £5 in cash and was £ in debt. Then she spent £5.

How much is her balance now?

- b) Rob's starting balance was -£3, as he had £ in cash and was £5 in debt. Then he spent £2. How much is his new balance?
- Billy's starting balance was -£3, as he had £1 in cash and was -£3 in debt. Then £4 of his debts were cancelled.

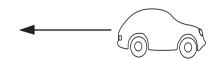
How much is his balance now?

d) Mary's starting balance was £ , as she had £5 in cash and was £3 in debt. Then £3 of her debts were repaid.

What is her balance now?



a)
$$(+8) - (+2) =$$



b)
$$(-8) - (-2) =$$

c)
$$(+2) - (+8) =$$

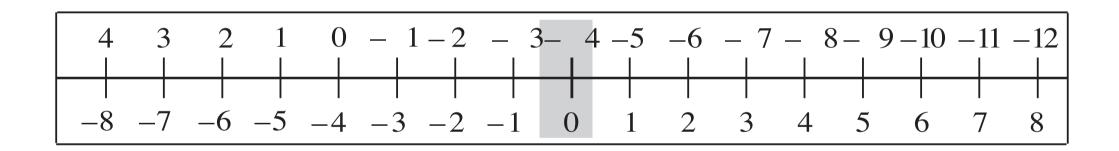


d)
$$(-2) - (-8) =$$

e)
$$(+4) - (+3) =$$

f)
$$(-4) - (-3) =$$

LP 47/8



a)
$$(+3) + (-1) =$$

b)
$$(+3) + (-5) =$$

c)
$$(+3) + (+2) =$$

d)
$$(+3) + 0 =$$

e)
$$(-4) + (+1) =$$

$$f) \quad (-4) + (+6) =$$

$$(-4) + (-3) =$$

h)
$$(-4) + 0 =$$

$$i) 0 + (+2) =$$

$$j) 0 + (-3) =$$

$$k)$$
 $(+ 3) - (+ 1) =$

$$1) \quad (+3) - (+5) =$$

$$m) (+3) - (-2) =$$

n)
$$(+ 3) - 0 =$$

o)
$$(-4) - (-1) =$$

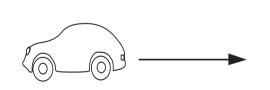
p)
$$(-4) - (-6) =$$

$$(-4) - (+3) =$$

r)
$$(-4) - 0 =$$

s)
$$0 - (-2) =$$

t)
$$0 - (+3) =$$



a	8	7	6			3	2				-2	- 3	- 4	
b	5	4		2	1			-2	-3	-4				

Rule:

b)

\mathcal{X}	5	-1	2	0		7		3	-40		8			
У	-2	4	1		-3		100			11		6	8.5	

Rule:

$$(+4) - (+6) =$$

$$(+4) - (+5) =$$

$$(+4) - (+4) = 0$$

$$(+4) - (+3) = +1$$

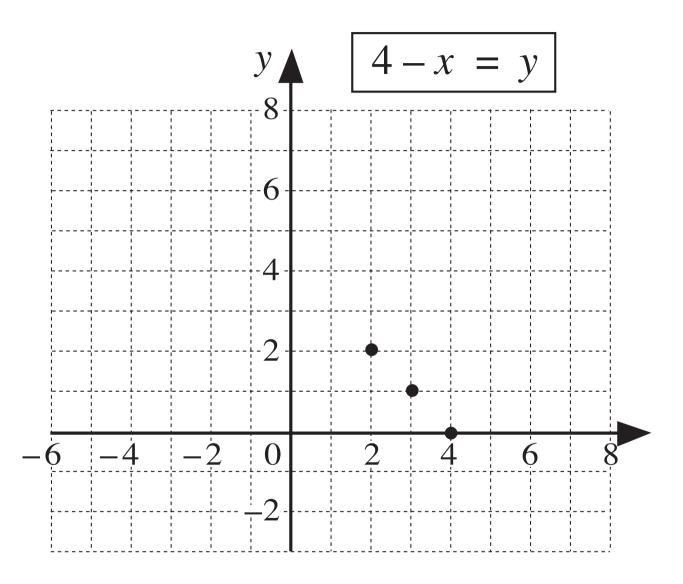
$$(+4) - (+2) = +2$$

$$(+4) - (+1) = +3$$

$$(+4) - 0 = +4$$

$$(+4) - (-1) =$$

$$(+4) - (-2) =$$



$$(-4) - (+2) =$$

$$(-4) - (+1) =$$

$$(-4) - 0) = -4$$

$$(-4) - (-1) = -3$$

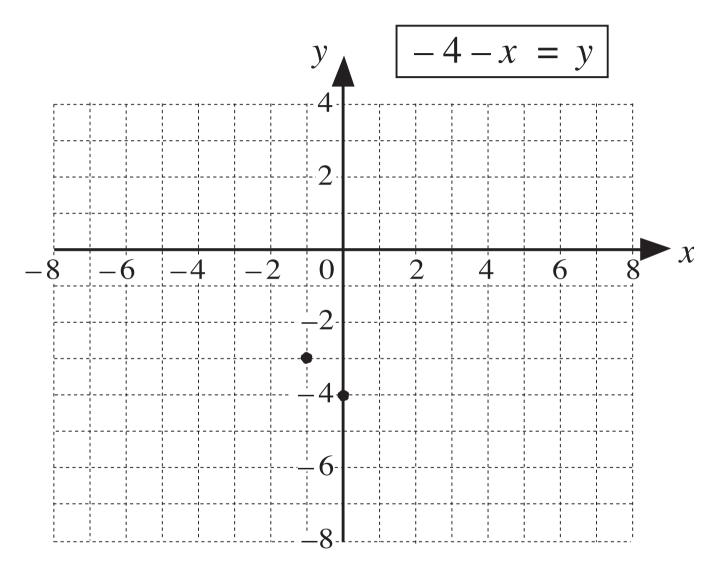
$$(-4) - (-2) = -2$$

$$(-4) - (-3) =$$

$$(-4) - (-4) = 0$$

$$(-4) - (-5) =$$

$$(-4) - (-6) =$$



$$(+3) + (-5) =$$

$$(+ 3) - (+ 5) =$$

$$(-3) + (-2) =$$

$$(-3)-(+2)=$$

$$(+3) + (-4) =$$

$$(+3) - (+4) =$$

$$(-3) + (-1) =$$

$$(-3) - (+1) =$$

$$(+3) + (-3) =$$

$$(+3) - (+3) =$$

$$(-3) + 0 =$$

$$(-3) - 0 =$$

$$(+3) + (-2) =$$

$$(+3) - (+2) =$$

$$(-3) + (+1) = (-3) - (-1) =$$

$$(-3) - (-1) =$$

$$(+3) + (-1) =$$

$$(+3) - (+1) =$$

$$(-3) + (+2) = (-3) - (-2) =$$

$$(-3) - (-2) =$$

$$(+3) + 0 =$$

$$(+3) - 0 =$$

$$(-3) + (+3) =$$

$$(-3) - (-3) =$$

$$(+3) + (+1) =$$

$$(+3) - (-1) =$$

$$(-3) + (+4) = (-3) - (-4) =$$

$$(-3)$$
 - (-4) =

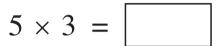
$$(+3) + (+2) =$$

$$(+3) - (-2) =$$

$$(-3) + (+5) =$$

$$(-3) + (+5) = (+3) - (-5) =$$

H Th	TTh	Th	Н	T	U



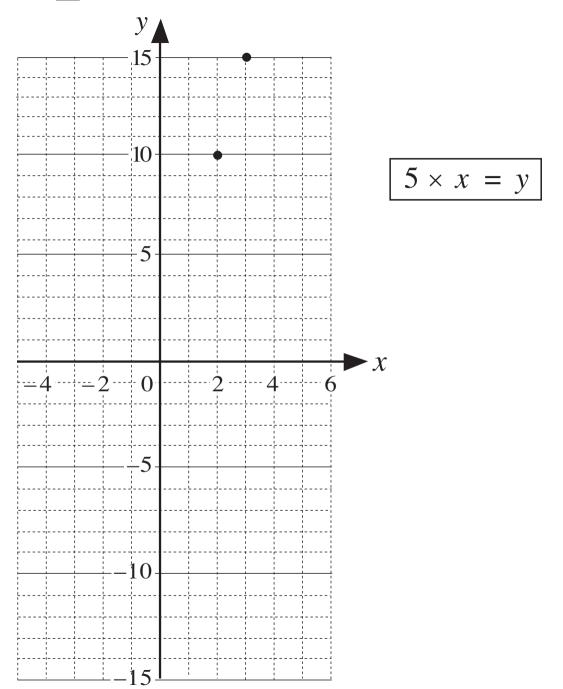
$$5 \times 2 =$$

$$5 \times 1 =$$

$$5 \times 0 =$$

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

$$5 \times (-3) =$$





$$9 \div 3 =$$

$$6 \div 3 = |$$

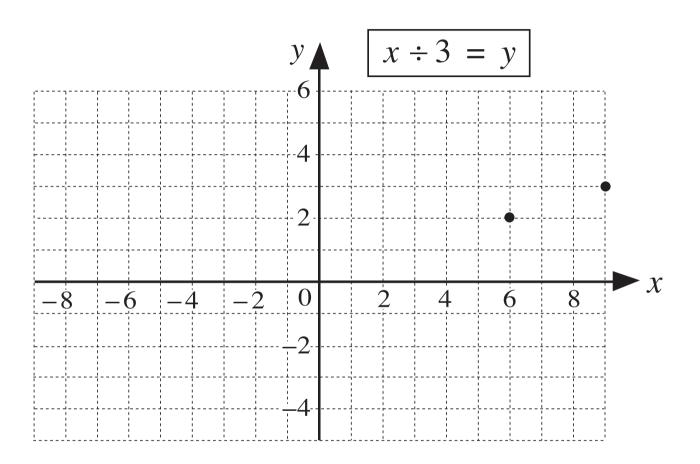
$$3 \div 3 = |$$

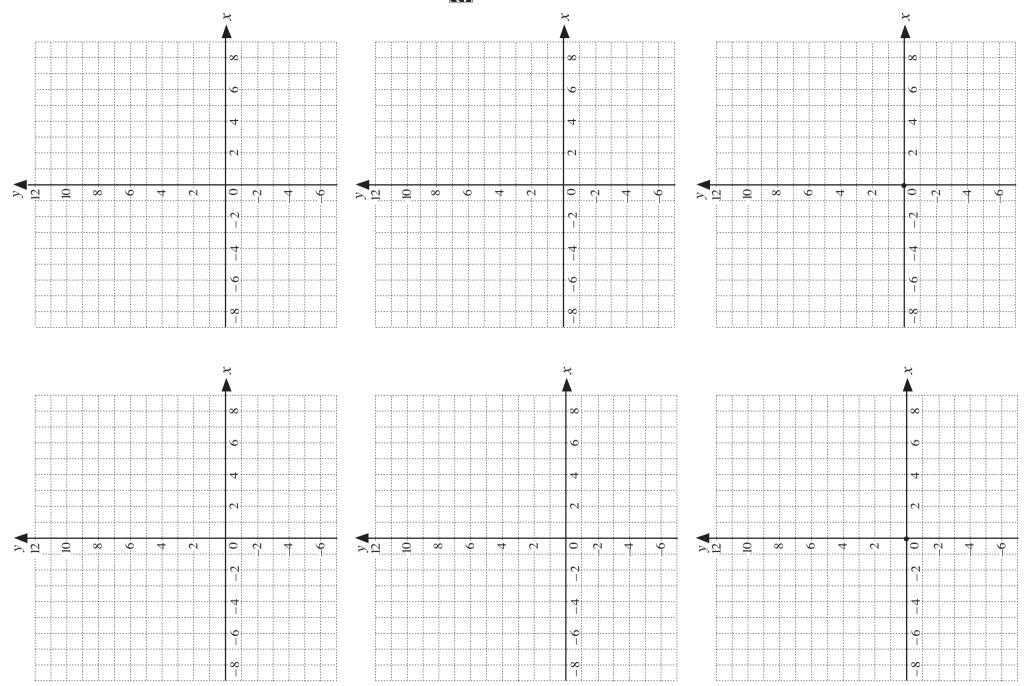
$$0 \div 3 = |$$

$$-3 \div 3 = |$$

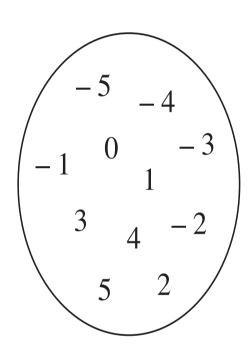
$$-6 \div 3 =$$

$$-9 \div 3 = \boxed{}$$





1 sheet per P Also use to prepare solution.



Statement	Numbers which make it true	Numbers which make it false
5 - = 8		
6+ = 1		
< 3		
5 > 6		
4+		

a)
$$-4 - \square = -18$$
 b) $-\square < 1$

c)
$$13 + \triangle = -10$$

d)
$$-3 - \square \le -15$$
 e) $10 - \square = 15$ f) $\triangle -(-2) > 5$

e)
$$10 - \bigcirc = 15$$

f)
$$\triangle -(-2) > 5$$

g)
$$= -5$$

h)
$$-8 - \bigcirc > -1$$

$$+(-3) = -5$$
 h) $-8 - \bigcirc > -1$ i) $-10 + (-x) = -11$

$$x =$$

a)
$$\square \times 6 \geq -18$$

b)
$$+8 \times \bigcirc \leq 0$$

d)
$$-24 \div \Box = -6$$
 e) $\bigcirc \div 5 = -3$ f) $(-5) + \triangle < +6$

$$) \quad \bigcirc \div 5 = -3$$

f)
$$(-5) + \triangle < +6$$

$$b =$$

a)
$$13 - \square > 10$$

a)
$$13 - \boxed{} > 10$$
 b) $-10 + (-\bigcirc) < -11$ c) $\triangle \div 5 = -7$

$$c) \quad \triangle \div 5 = -7$$

d)
$$(-4) \times \square > -24$$

d)
$$(-4) \times \square > -24$$
 e) $-12 + 2 \times \square = -16$ f) $\triangle \div (+3) = -6$

$$f) \qquad \triangle \div (+3) = -6$$

LP 52/11

a)
$$6 + 8 =$$

c)
$$32 + 19 =$$

e)
$$13 - 8 =$$

g)
$$54 - 18 =$$

i)
$$6 \times 7 =$$

k)
$$6 \times 90 =$$

m)
$$30 \div 5 =$$

o)
$$150 \div 10 =$$

b)
$$24 + 5 =$$

d)
$$250 + 190 =$$

f)
$$26 - 12 =$$

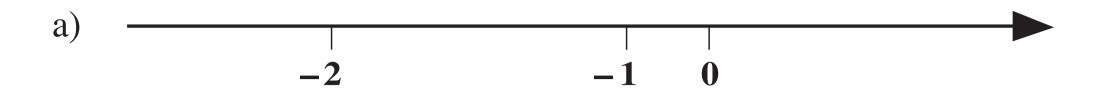
h)
$$350 - 140 =$$

$$i)$$
 14 × 5 =

1)
$$18 \times 100 =$$

n)
$$42 \div 7 =$$

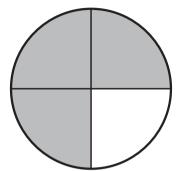
p)
$$250 \div 10 =$$



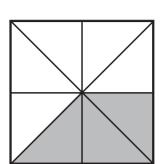


X	7	8	9	5		6	7	10	6	0
	3				9		7		11	30
\overline{z}	22	17	46		82	61		81		

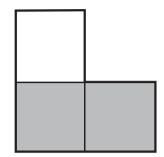




b) 1 unit



c) 1 unit

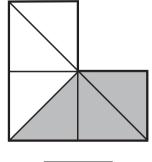


d)

1 unit



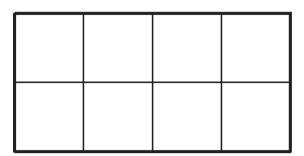
e) 1 unit







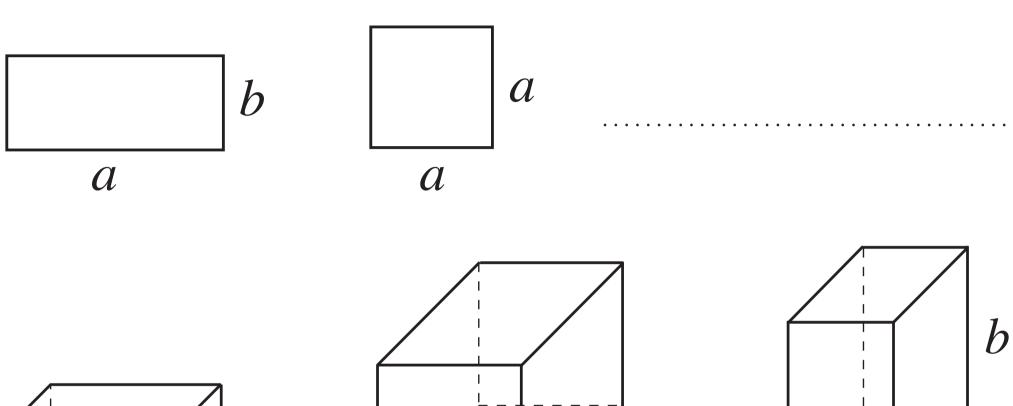
a)

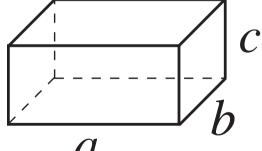


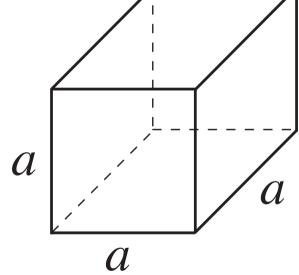
b)

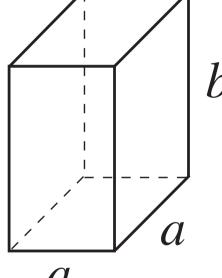
c)

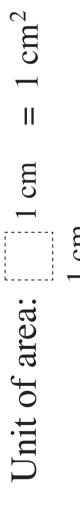
d



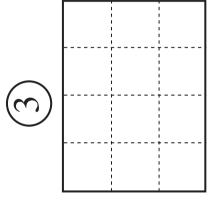








cm



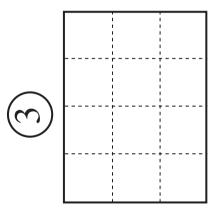
cm

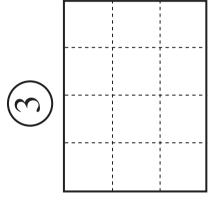
4

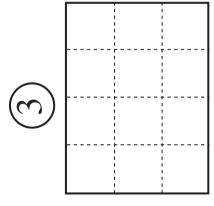
2 cm

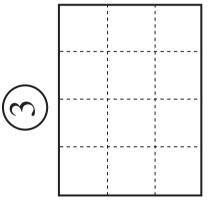
4

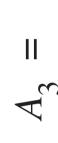
3

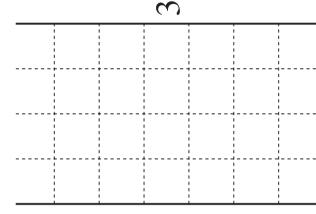


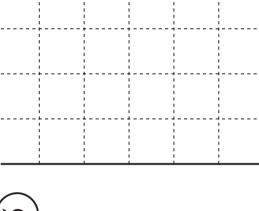












cm

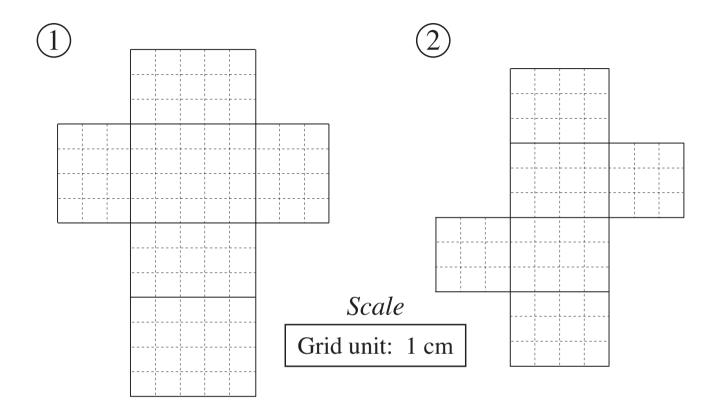
4

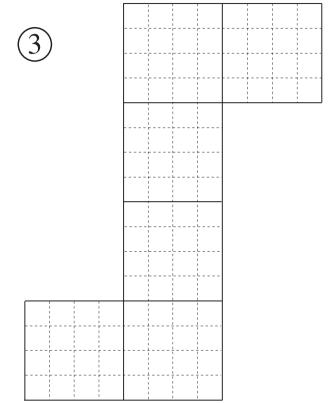


cm 4

LP 54/8

П





$$A =$$

$$A =$$

$$A =$$

$$V =$$

$$V =$$

$$V =$$

a) We can work out the

perimeter

of a rectangle if

we add the lengths of its sides.

$$P_{\text{rectangle}} = a + b + a + b = 2a + 2b = 2 \times (a + b)$$

$$P_{\text{square}} = a + a + a + a = 4 \times a$$

b) We can work out the **area** of a rectangle if we multiply two adjacent sides.

$$A_{\text{rectangle}} = a \times b$$

$$A_{\text{square}} = a \times a$$



c) We can work out the **surface area** of a cuboid if we add the area of it faces.

$$A_{\text{cuboid}} = 2 \times (a \times b + a \times c + b \times c)$$

$$A_{\text{square-based cuboid}} = 2 \times (a \times a) + 4 \times (a \times b)$$

$$A_{\text{cube}} = 6 \times a \times a$$



d) We can work out the **volume** of a cuboid if we multiply the lengths of the 3 edges which meet at a vertex.

$$V_{\text{cuboid}} = a \times b \times c$$
 $V_{\text{square-based cuboid}} = a \times a \times b$
 $V_{\text{cube}} = a \times a \times a$



a					
b					
C					

LP 55/3

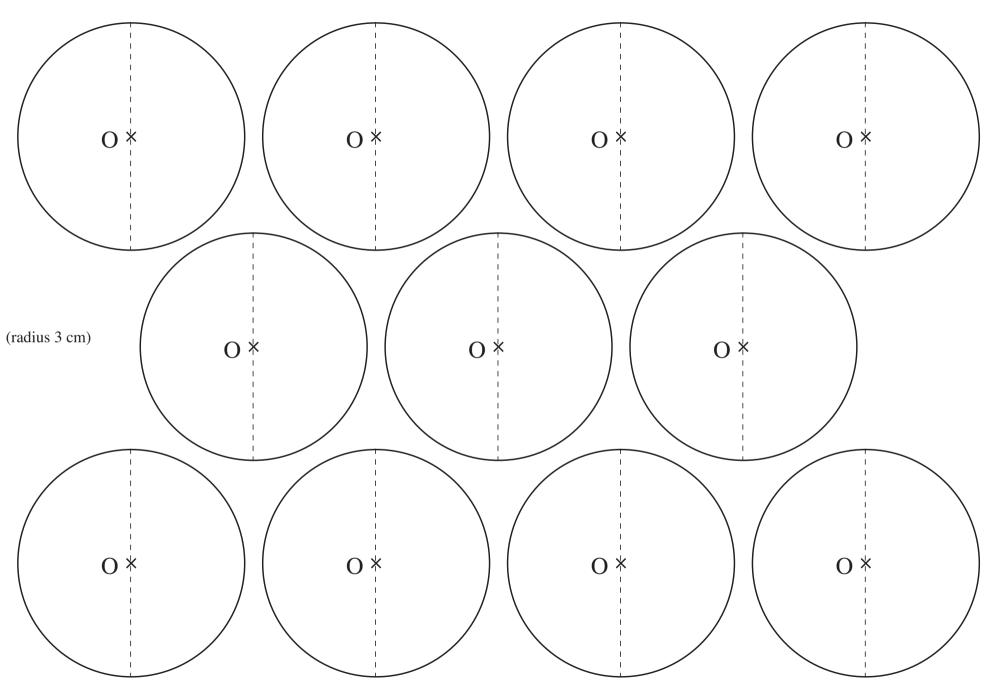
No. of cards per envelope						
No. of envelopes						

a)	a	8	0	14	7		13	29		28
	\overline{b}	22	30	16		20			- 1	

Rule:

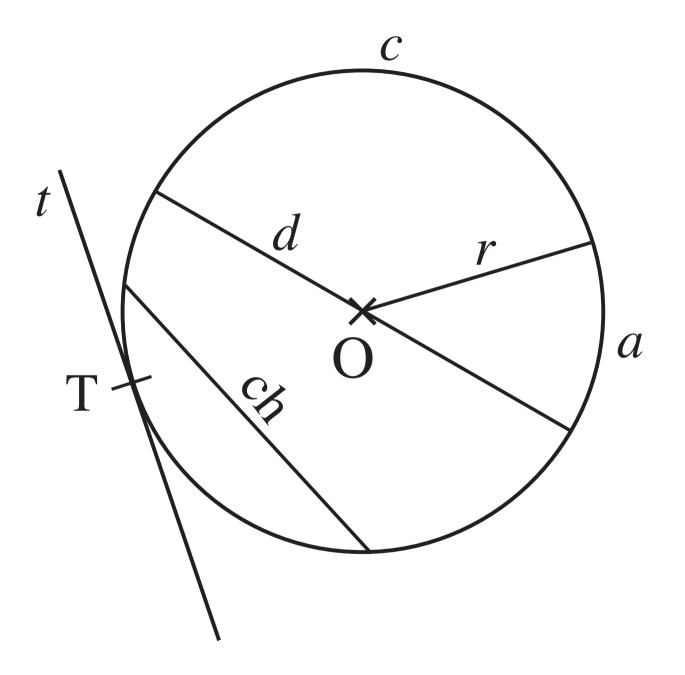
Rule:





Stick straws behind dotted lines.

- a) The **circumference** of a circle is the set of points in a plane which are a given distance (not zero) from a given point in the **plane**.
- b) A circle is the set of points in a plane which are equal to or less than a given distance from a point in the plane.
- c) The surface of a sphere is the set of points in **space** which are a given **distance** (not zero) from a given point in space.
- d) A **sphere** is the set of points in space which are equal to or less than a given distance from a **given point** in space.



circumference (c)

centre (O)

radius (r)

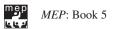
diameter (d)

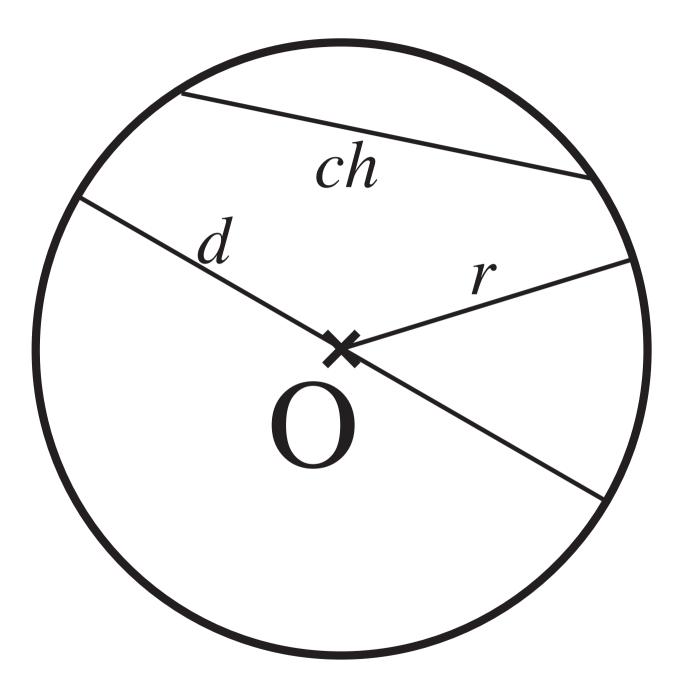
arc (a)

chord (ch)

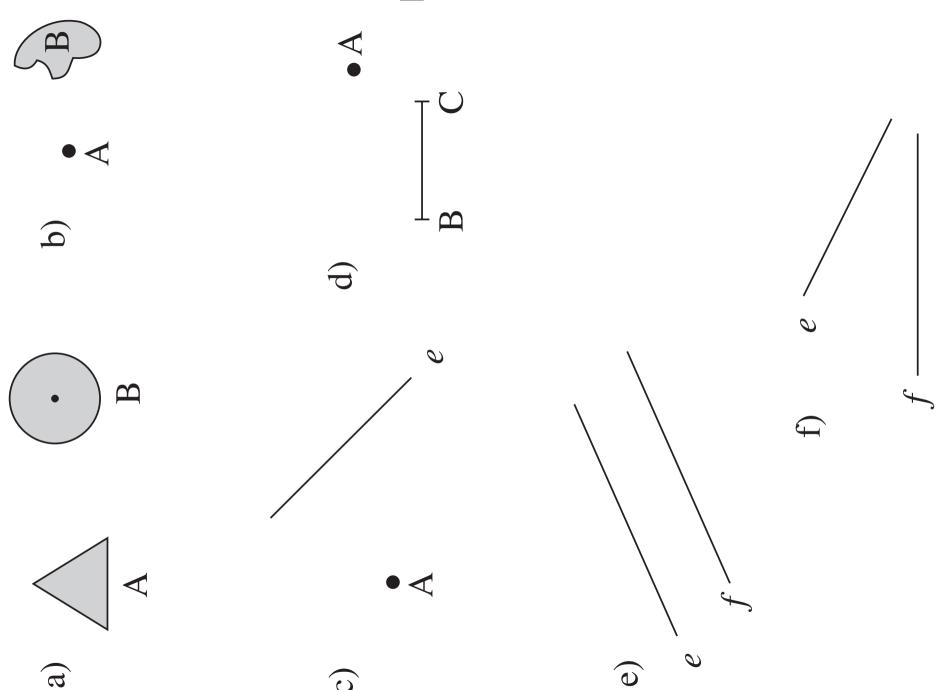
tangent (t)

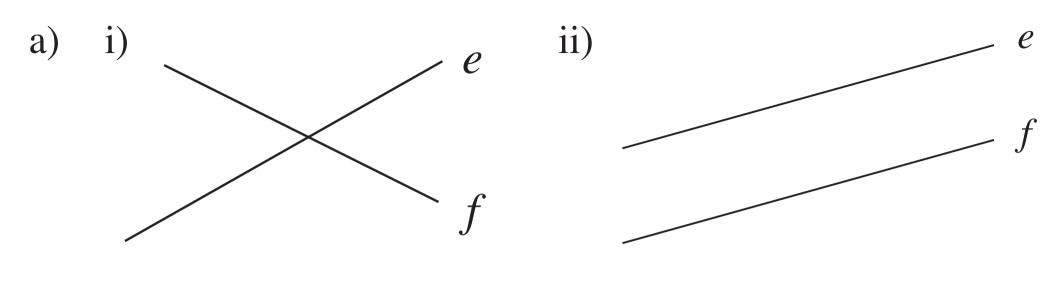
tangent point (T)

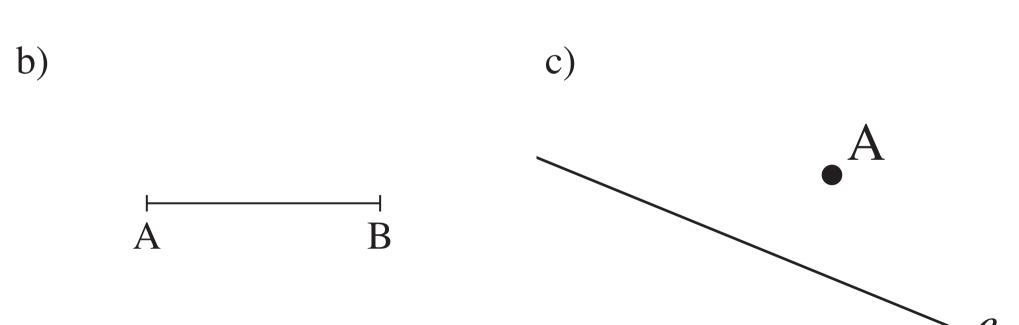




sector
segment
semi-circle

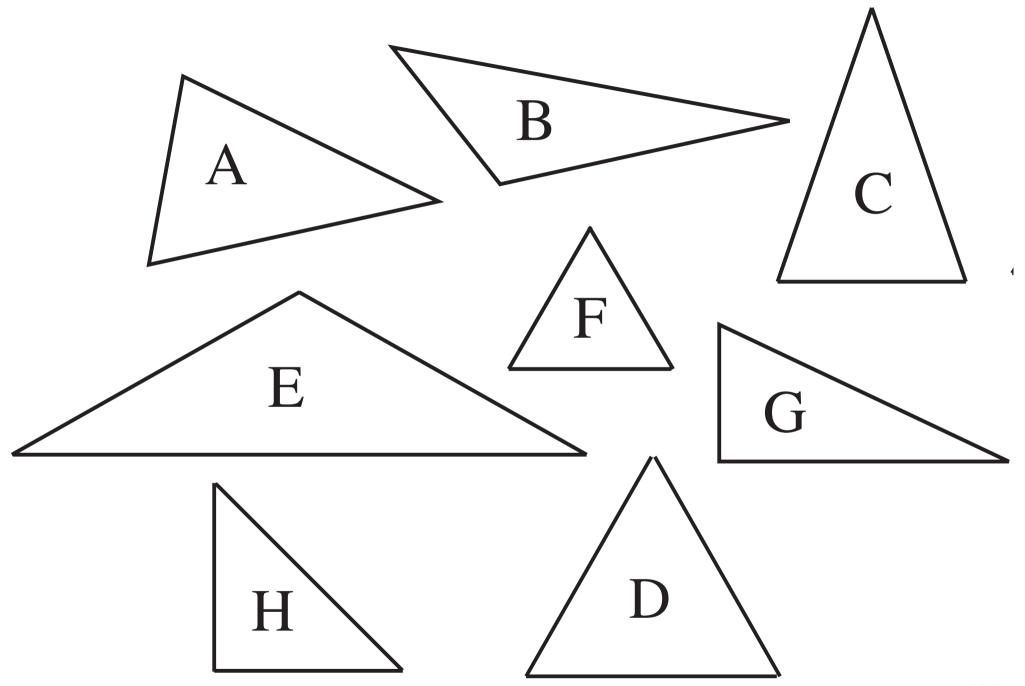


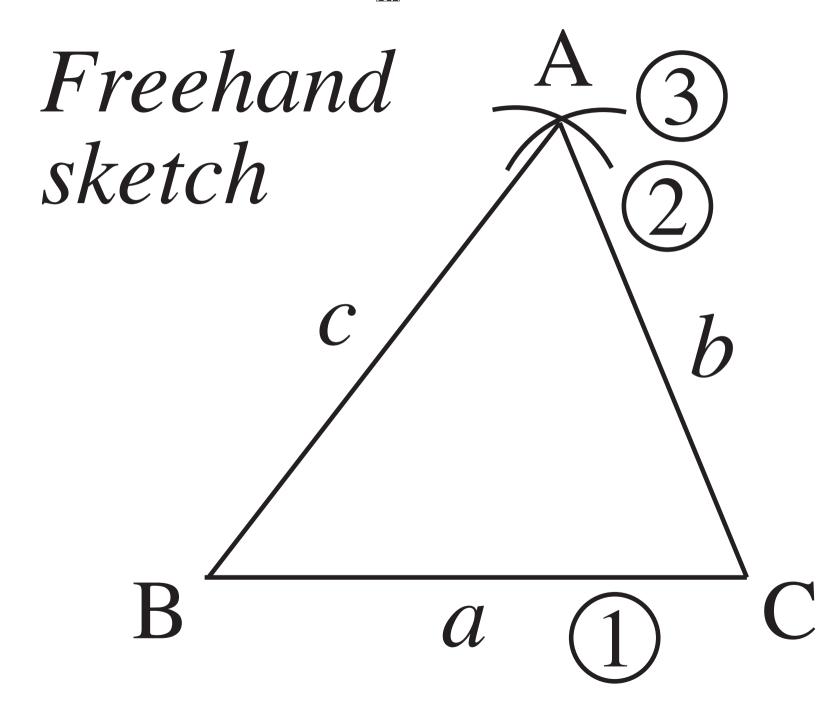


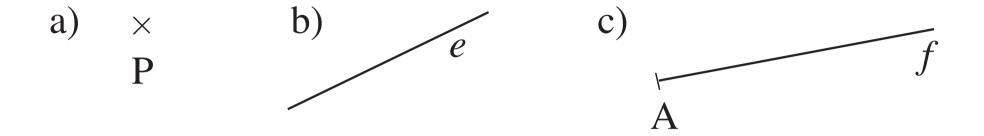


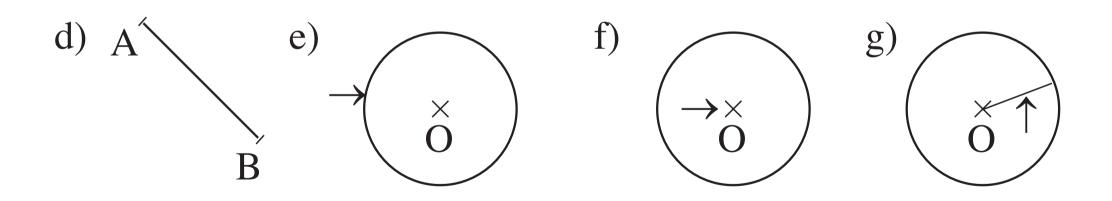
- b) The of a circle is a which connects the centre of the circle with a point on the circumference.
- c) A **sphere** is the set of points which are not than a given distance from a point in space, as long as the given distance is not zero.

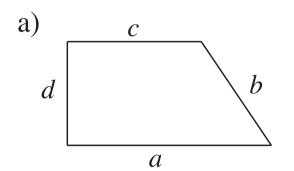


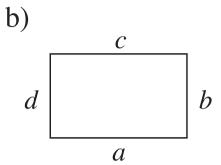


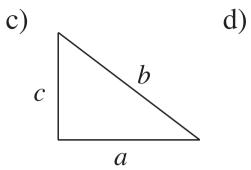


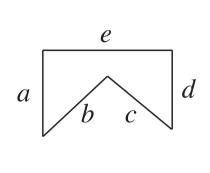


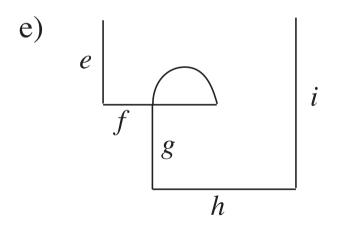


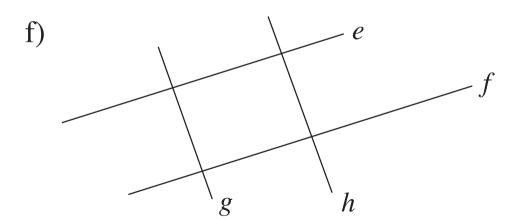


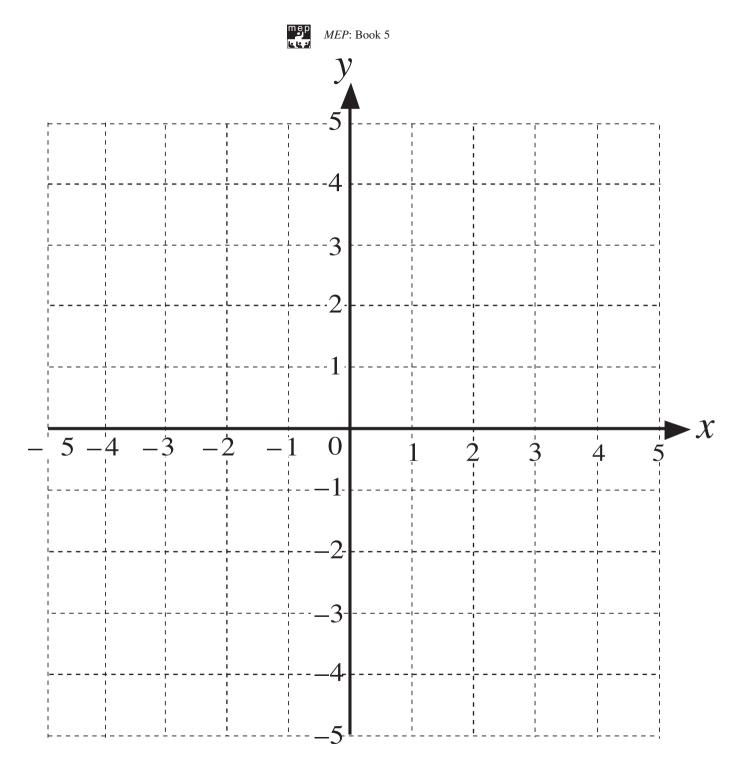


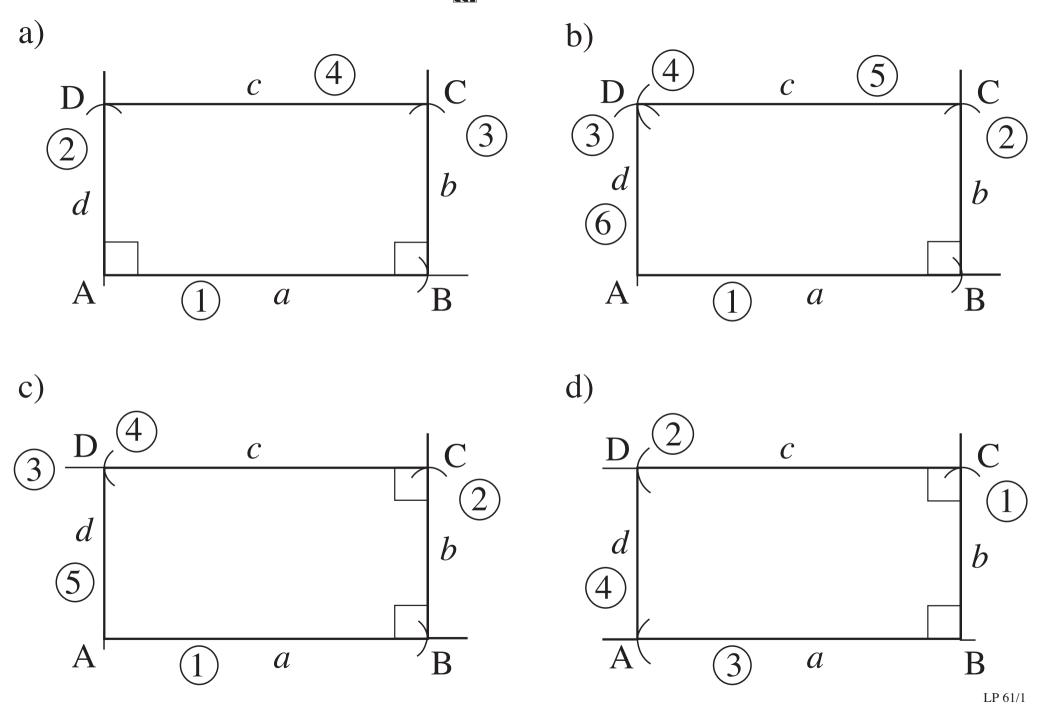




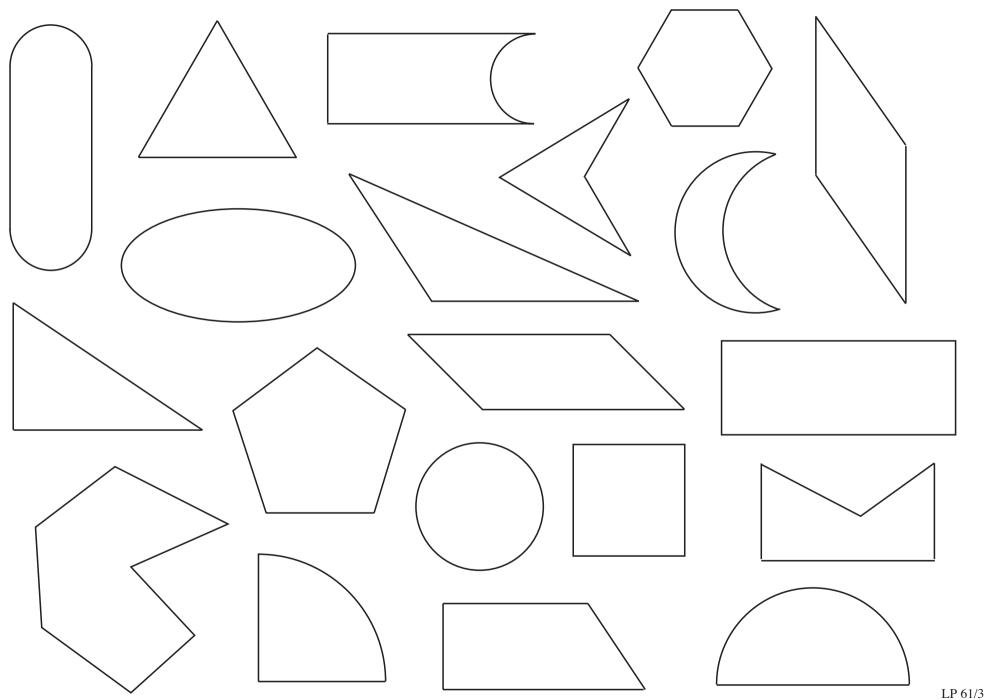




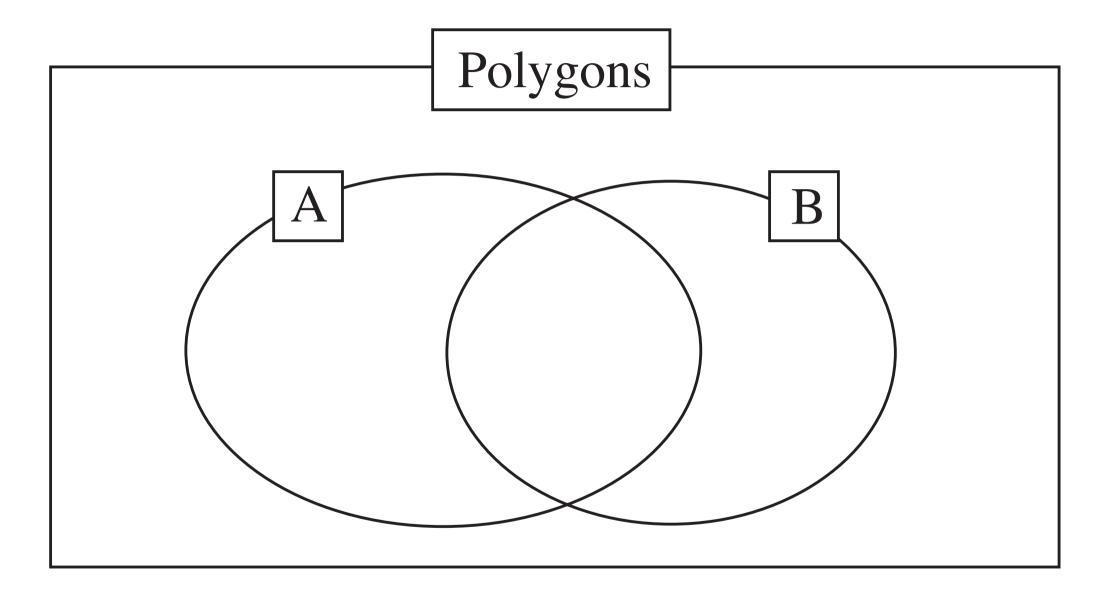


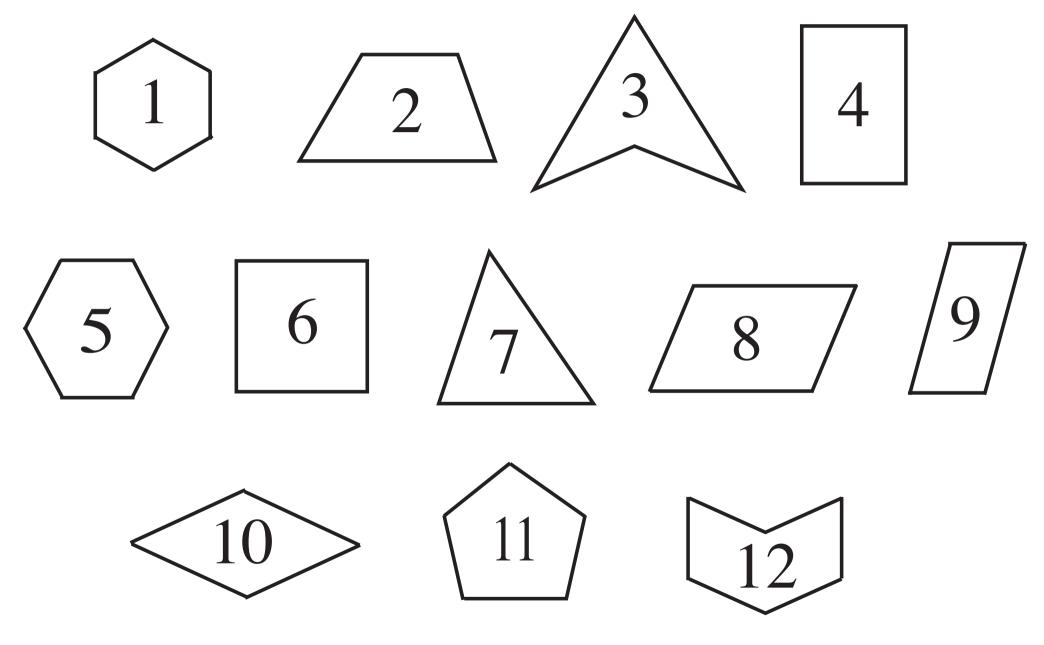


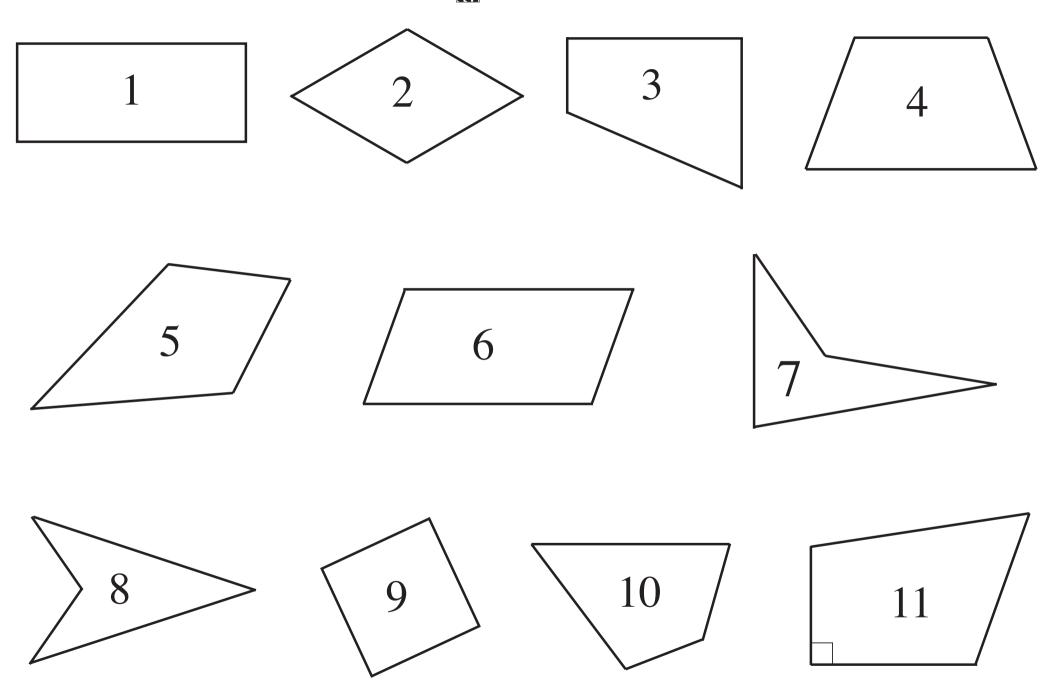




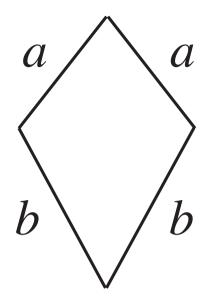




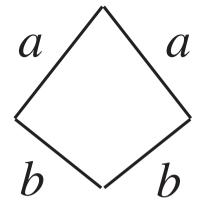




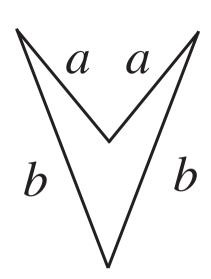




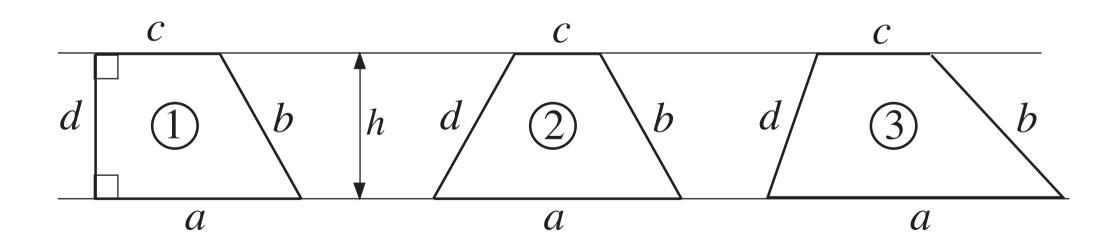
b)

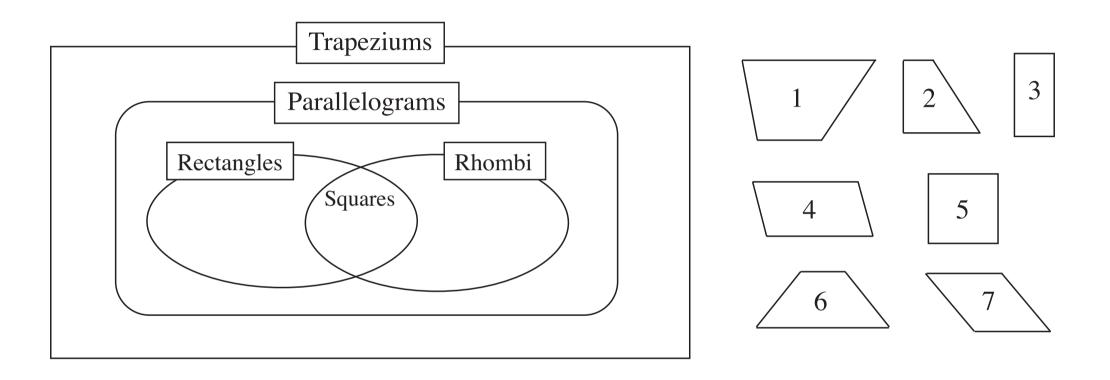


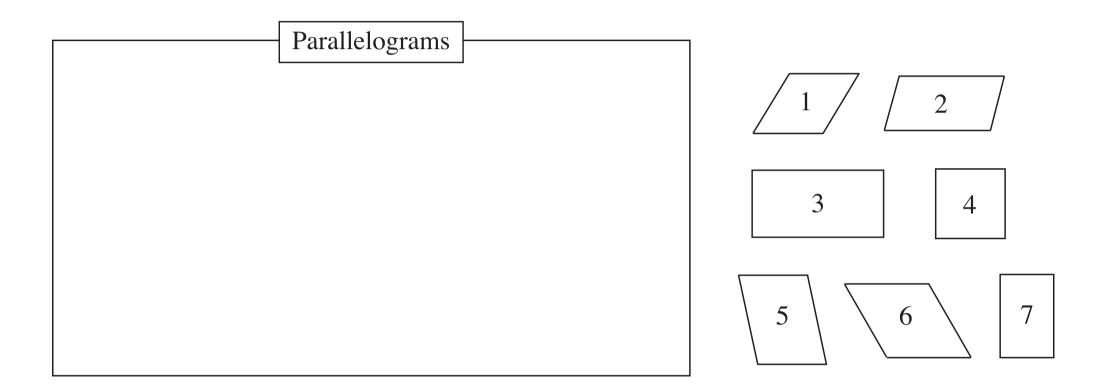
C



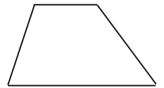
LP 61/7



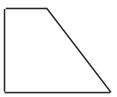




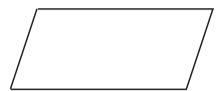
i)



ii)

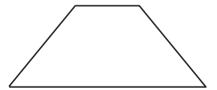


iii)



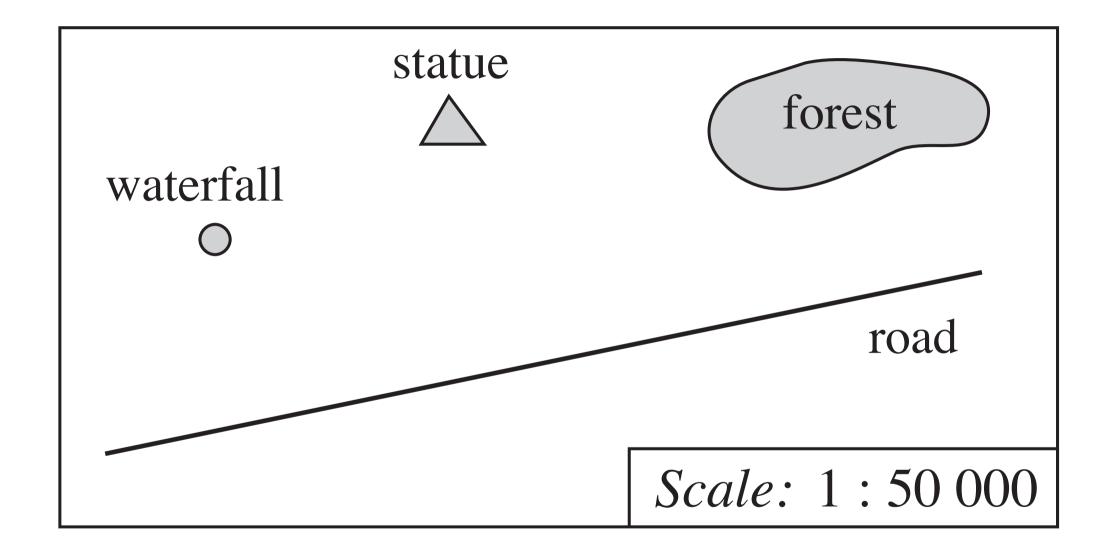
iv)

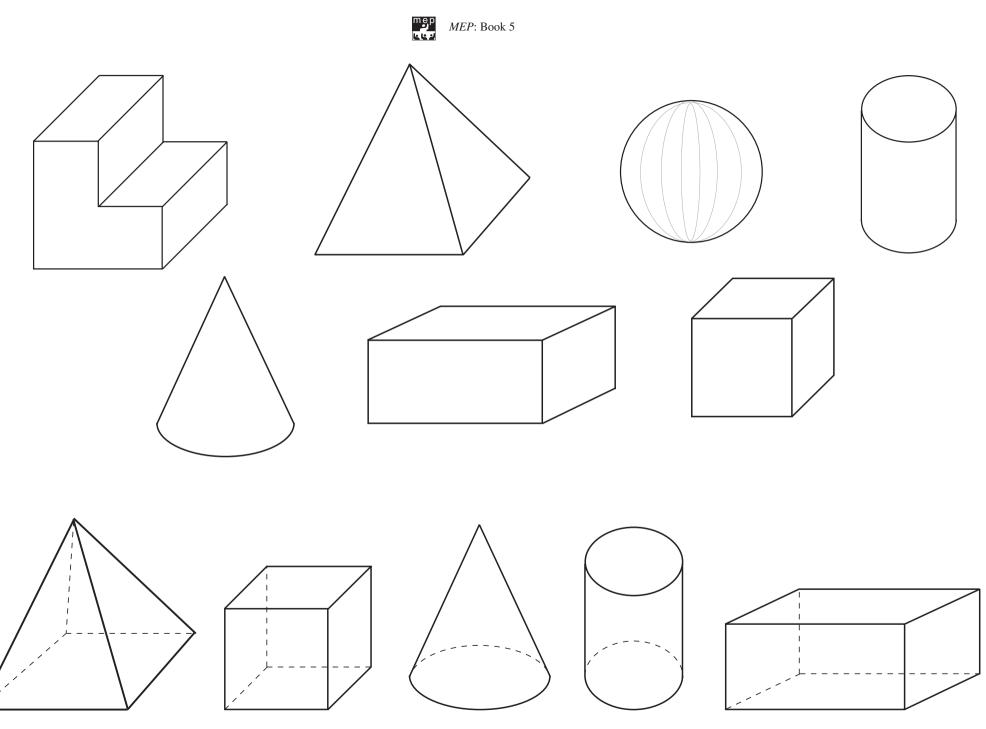




vi)



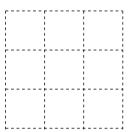




a)



Front view



Side view

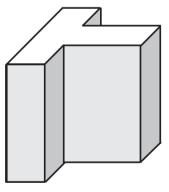


Top view



Volume =

b)



Front view



Side view

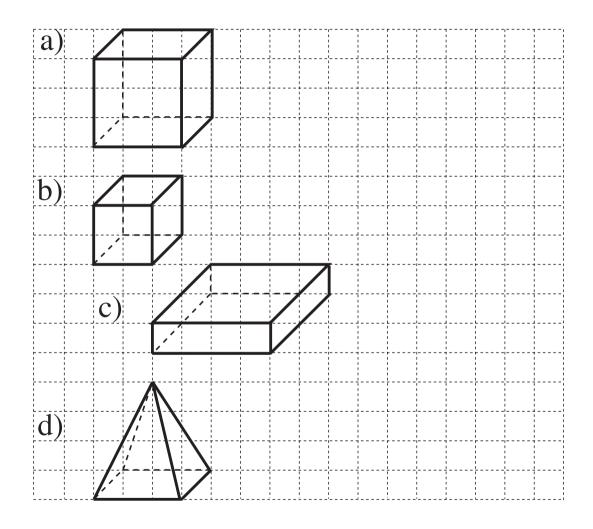


Top view



Volume =





Name:

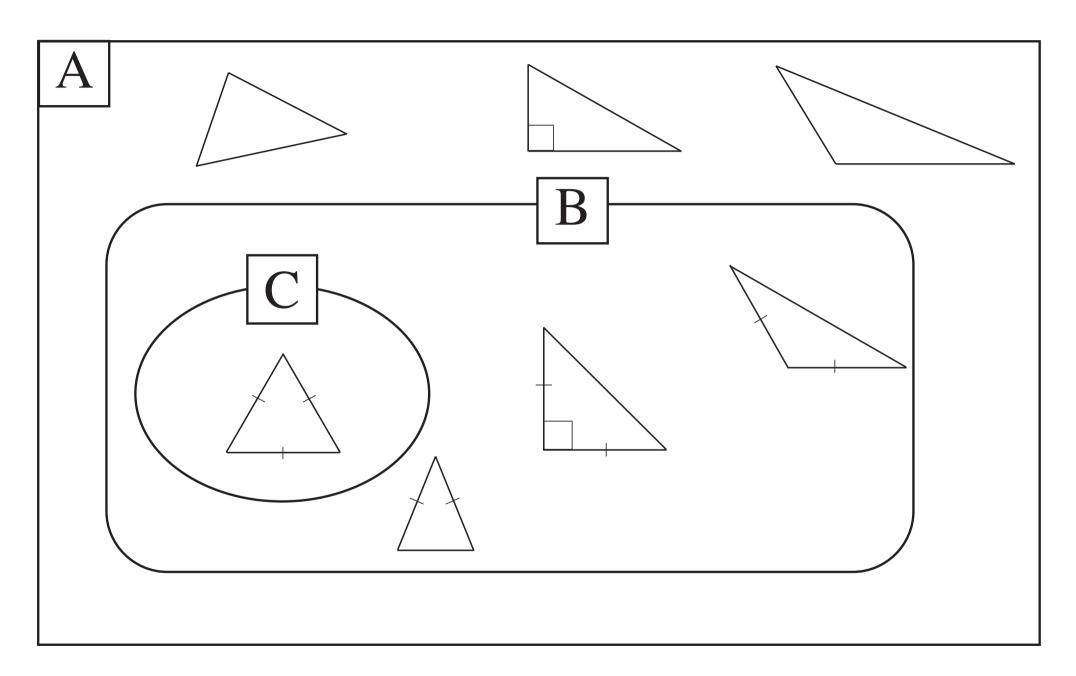
Name:

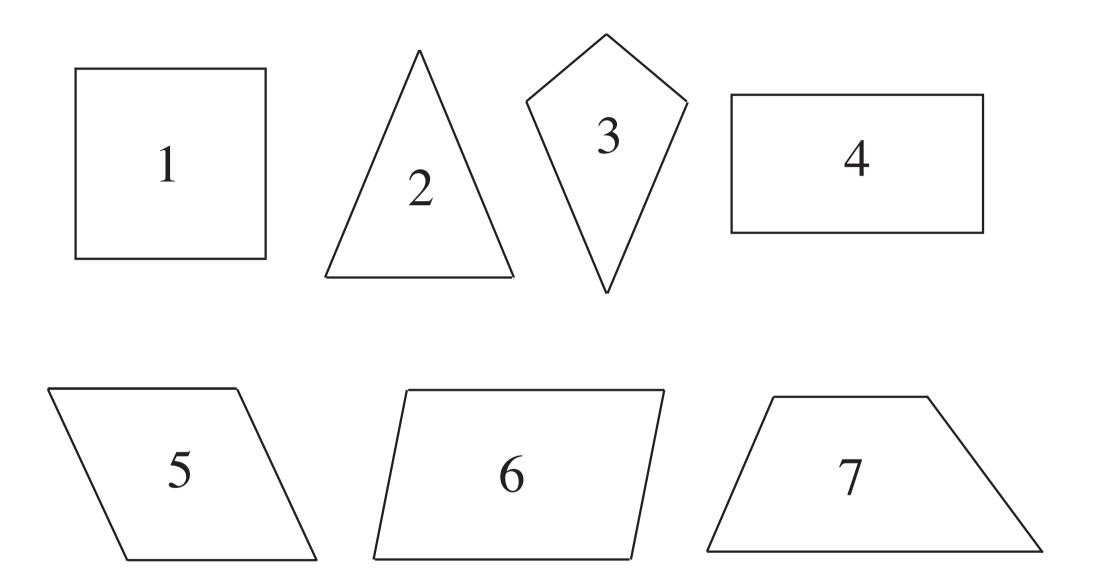
$$v =$$
 $e =$ $f =$

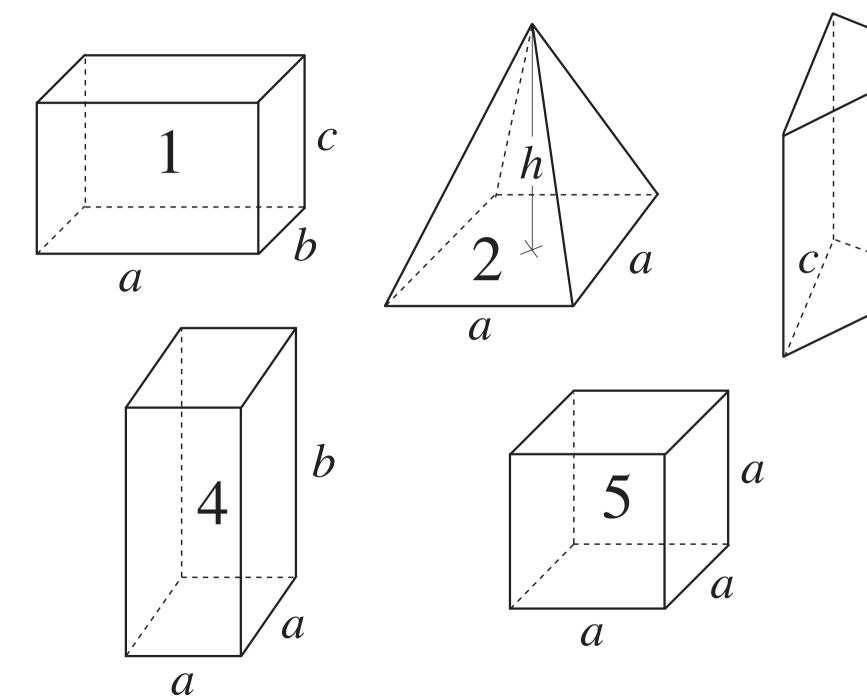
Name:

$$v =$$
 $e =$ $f =$

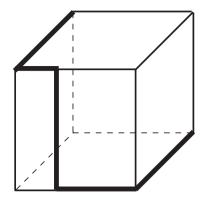
Name:



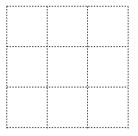








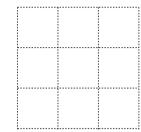
Front view



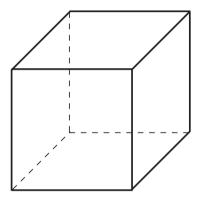
Side view



Top view



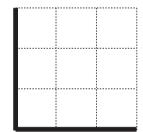
b)



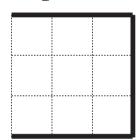
Front view



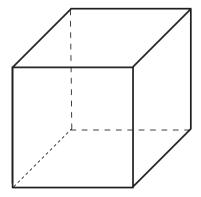
Side view



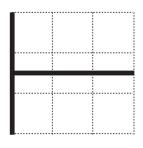
Top view



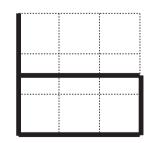
c)



Front view



Side view



Top view

