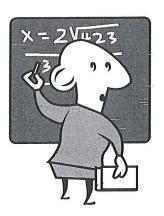


Cumbernauld Academy

Mathematics Department



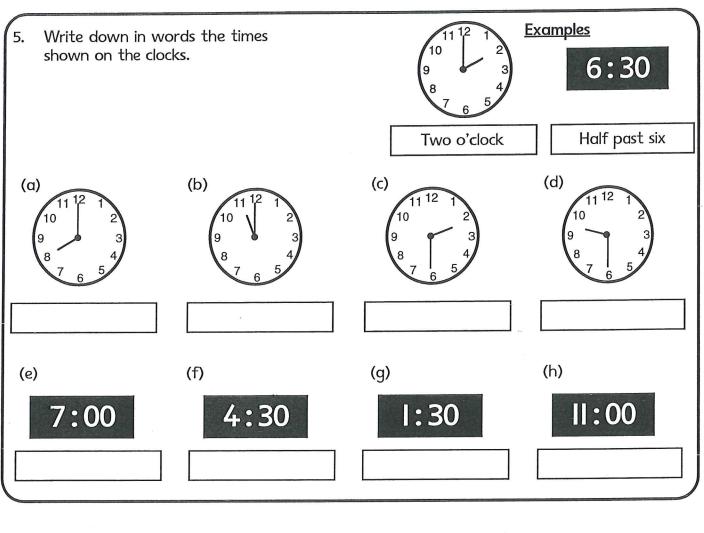
1st/2nd Level

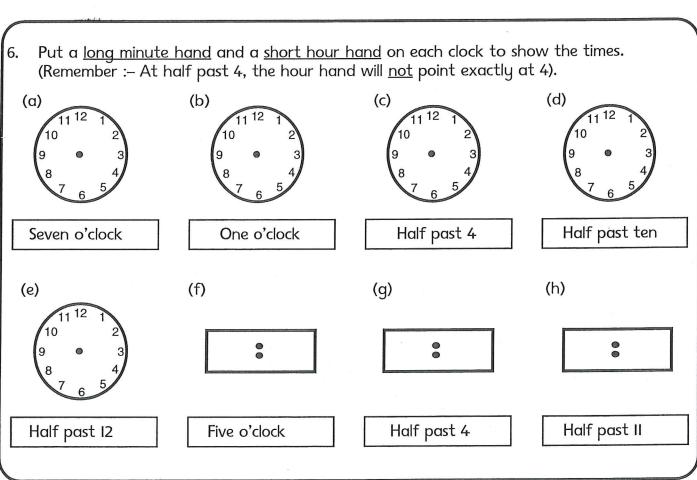
Block 2 - homework booklet

Name

name	
date due back	
signed score	•

Tillle	No. 6a	signed		score
I. Write in the other days of Monday ,	of the week.	,	,	
2. Write in all the other mo	nths of the year			
January, F July,				
3. Write the dates using nu	umbers :- 8th	h March 1996 is	08 / 03 day month	
(a) 14th March 1992 is(b) 26th November 1986(c) 4th May 1971 is(d) 3rd August 1999 is(e) Today's date is				
4. Write these dates in full :	: 04/05/90 is	4th May 1990.		
(a) 08/05/92 is			2	
(b) 10/10/99 is]
(c) Today's date is	. ,			
(d) 0I/0I/0I is				
(e) 18/02/03 is				





Time

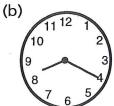
No. 6b

name	
date due back	
signed	score

I. Write down in words the times shown on the clocks.



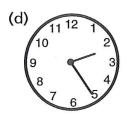
(a) 11 12 1 10 2 9 3 8 4 7 6 5

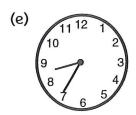


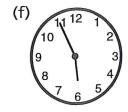
(c) 11 12 1 2 1 3 8 4 7 6 5

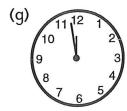
Ten past three











(h)

8:40

(i)

9:05

(j)

1:11

(k)

10:56

2. Write down the times and put in a.m. (before noon) or p.m. (afternoon).



(a) Milkman leaves milk.

am or pm

3:00

(b) Football match kick-off.

am or pm

7:45

(c) Breakfast.

am or pm

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

(d) Dinner time.

am or pm

3. Written below is part of a T.V. programme guide.

BBC I

- 7.00 Wildlife: Tigers
- 7.30 Only Fools and Horses
- 8:00 Film : Blade
- 10.00 Night News
- 10.20 Film: Vampire
- II·55 Sports Extra

BBC 2

- 6.45 Rugby Highlights
- 7·15 Evening News
- 7.45 Film : Police Story
- 10.00 Film: Horror House
- II·45 Music Hour
- 12.45 Night Talk

Answer the following questions :-



(a) What programme starts at this time ?





(b) What film starts at this time?



(c) How long does this film last?

—].	
hours	minutes



(d) What film starts at this time?



(e) How long does this film last?

	hours	minute

(f) Are the T.V. times above a.m. or p.m. ?



(g) Explain your answer.



This is the time now.

(h) How long do I have to wait to see "Sports Extra"?

minutes

22	Homework	Sheets	
	Time	No. 14b	

name	
date due back	
signed	score

I. Here is part of a <u>night-time</u> T.V. guide.

CHANNEL 6

		l
6.00	1800	Film : North Park
8.00		Evening News
8.35		Westenders
9·15		Film : Scream 5
10·10		Internet Special

CHANNEL 7

6·15		News
6.45		The Sampsons
7·10	ė	Film : Crocodile Dundee
10.45		Film : Jaws
12.20		Sports Roundup

Write in all the 24 hour times in the empty boxes above.

2. (a) The film "North Park" is on Channel

It lasts for hrs

(b) The film "Crocodile Dundee" is on Channel

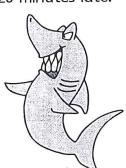
It lasts for hrs mins .

(c) You switch on your T.V. at 2050 hours.

You will have to wait _____ minutes to watch "Scream 5".

(d) The Channel 7 News is extended and all the programmes will run 20 minutes late.

The film "Jaws" will now start at



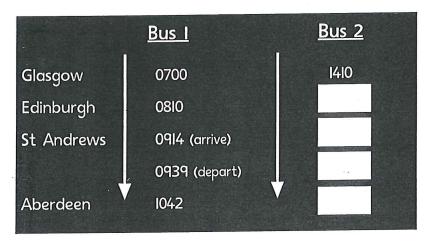
3. Two buses leave from Glasgow for Aberdeen.

Bus I leaves in the morning at 0700.

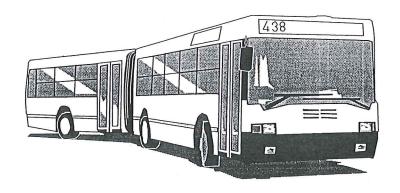
Bus 2 leaves in the afternoon at 1410.

Here is a part of the timetable.





- (a) From Glasgow to Edinburgh, bus I took hr mins
- (b) From Edinburgh to St Andrews, bus I took hr mins
- (c) Bus I stopped at St Andrews for mins
- (d) Bus I took hr mins from St Andrews to Aberdeen.
- (e) Bus I took a total of hr mins from:Glasgow to Aberdeen.
- (f) Fill in the times for Bus 2 in the table above, using the same times taken by Bus I. (hint: Bus I took I hour IO minutes from Glasgow to Edinburgh, so Bus 2 will take the same length of time as it travels at the same speed as Bus I)

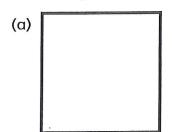


Fractions

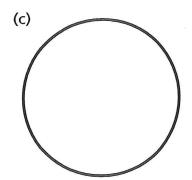
No. 15a

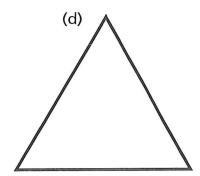
name	
date due back	
signed	score

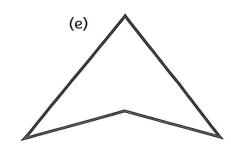
I. Draw a line through each of the following shapes to cut them in half. Colour in one half of each shape.



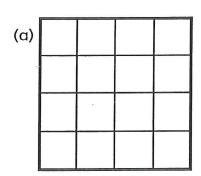








2. Draw a line through each of the following shapes to cut them exactly in half.



(b) There are pieces in each half.

There are pieces in each half.

There are pieces in each half.

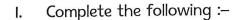
Colour or shade in the fraction shown for each shape. 3. (c) (b) (d) (a) **(**f) (e) (h) (g) (i) <u>|</u> 5 <u>4</u> 5 <u>|</u> |10 (k) (j) <u>|</u> 9 **(**|) ** (difficult)

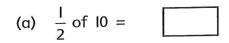
3 4 Page 8

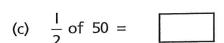
Fractions

No. 15b

name	
date due back	
signed	score







(e) $\frac{1}{4}$ of 12 =

(g) $\frac{1}{4}$ of 4 =

(i) $\frac{1}{2}$ of 240 =

(k) $\frac{1}{4}$ of 84 =

(m) $\frac{1}{5}$ of 35 =

(o) $\frac{1}{8}$ of 24 =

(q) $\frac{1}{9}$ of 36 =

(s) $\frac{1}{8}$ of 88 =

(b) $\frac{1}{2}$ of 40 =

(d) $\frac{1}{4}$ of 20 =

(f) $\frac{1}{4}$ of 32 =

(h) $\frac{1}{4}$ of 60 =

(j) $\frac{1}{4}$ of 240 =

(I) $\frac{1}{5}$ of 20 =

(n) $\frac{1}{6}$ of 24 =

(p) $\frac{1}{7}$ of 2I =

(r) $\frac{1}{10}$ of 60 =

(t) $\frac{1}{9}$ of 90 =

2. (a) Ahmed has 80p.

He gives $\frac{1}{2}$ of his money to Anne. Anne has p

(b) Peter has 21 sweets.

He gives $\frac{1}{3}$ of his sweets to Paul. Paul has $\boxed{}$ sweets .

(c) Jenny has £20.

She gives $\frac{1}{4}$ of her money to Mary. Mary has f

3. Complete the following:-

(a)
$$\frac{1}{2}$$
 of $12 =$

(b)
$$\frac{1}{2}$$
 of 18 = 9

(c)
$$\frac{1}{2}$$
 of 16 = 8

(d)
$$\frac{1}{2}$$
 of $12 = 3$

(e)
$$\frac{1}{2}$$
 of 16 = 4

(f)
$$\frac{1}{2}$$
 of 18 = 6

(g)
$$\frac{1}{1}$$
 of $12 = 4$

(h)
$$\frac{1}{2}$$
 of 15 = 3

4. Colour enough squares to show :-

$$\frac{3}{6} = \frac{1}{2}$$
(a)

$$\frac{2}{8} = \frac{1}{4}$$
(b)

5. Fill in the missing parts of the following fractions :-

(a)
$$\frac{1}{2} = \frac{}{8}$$

(b)
$$\frac{1}{3} = \frac{1}{6}$$

(c)
$$\frac{1}{4} = \frac{1}{8}$$

(d)
$$\frac{1}{4} = \frac{1}{12}$$

(e)
$$\frac{1}{2} = \frac{1}{20}$$

(f)
$$\frac{1}{3} = \frac{1}{15}$$

(g)
$$\frac{1}{6} = \frac{1}{12}$$

(h)
$$\frac{1}{2} = \frac{5}{2}$$

(i)
$$\frac{1}{2} = \frac{12}{2}$$

$$(j) \qquad \frac{1}{4} = \frac{4}{\boxed{}}$$

Fractions Decimals Percentages

No. 5a

name	
date due back	
signed	score

I. A bar of chocolate has 9 pieces.

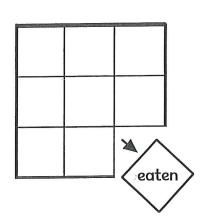
One piece is broken off and eaten.

(a) The fraction of chocolate eaten is

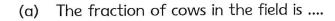


(b) The fraction of chocolate left is





2. There are 16 animals in a field. 9 of the animals are cows.





(b) The fraction which are not cows is





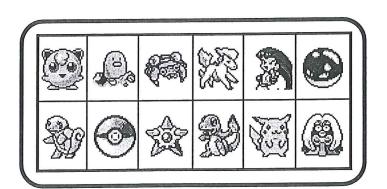
3. There are 12 cards to collect in a Pokemon set. Eddie has a full set of cards.

Eddie gave $\frac{1}{3}$ of the cards to Ben.

(a) How many cards did Eddie give to Ben ?

(b) How many cards did Eddie keep?

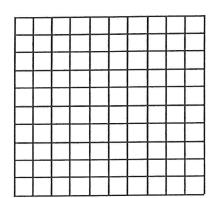




(c) What <u>fraction</u> of the whole set did Eddie keep?



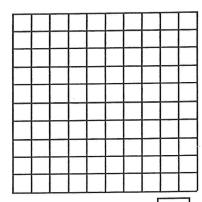
- 4. Each square below has 100 smaller squares.
 - (a) Shade 30 squares



Fraction shaded is $\frac{30}{100}$

we call this 30%

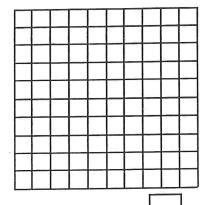
(b) Shade 15 squares



Fraction shaded is 100

we call this ______%

(c) Shade 68 squares



Fraction shaded is 100

we call this _____ %

		_	*				`
REMEMBER :-	Any Number	=	(number)%	example	52 100	=	52%

5. Change these fractions into percentages:-

(a)
$$\frac{25}{100} = \%$$

(b)
$$\frac{80}{100} =$$
 %

(c)
$$\frac{14}{100} = \frac{1}{100}$$
 %

(d)
$$\frac{8}{100} = \frac{\%}{}$$

(e)
$$\frac{qq}{100} = \%$$

(f)
$$\frac{18.5}{100} = \frac{\%}{}$$

6. In the boxes below, 5 well known fractions have been changed into percentages :-

$$\frac{1}{2} = 50\%$$

$$\frac{1}{4} = 25\%$$

$$\frac{3}{4} = 75\%$$

$$\frac{1}{10} = 10\%$$

$$\frac{1}{5} = 20\%$$

You <u>MUST</u> learn these !! Your teacher will ask you to repeat them, next period. To help you - follow these instructions very carefully

- Find a piece of scrap paper and write out all the boxes.
- Read out loud, (3 times) what you have written.
- Close your eyes and try to say them out loud again.
- Get someone to ask you them. Ask them to mix the boxes up.
- If you need to, start again at the first point!

Fractions Decimals Percentages

No. 5b

name	
date due back	
signed	score

REMEMBER:-

$$\frac{1}{2} = 50\%$$

$$\frac{1}{4} = 25\%$$

$$\frac{3}{4} = 75\%$$

$$\frac{1}{10} = 10\%$$

$$\frac{1}{5} = 20\%$$

(You should know these well by now,... so only use them to CHECK your working)

Example

50% of I2 sweets
$$= \frac{1}{2} \text{ of I2}$$

= <u>6 sweets</u>



I. Work out these in the same way:-

(a) 50% of 20 sweets $= \boxed{\frac{1}{-}} \quad \text{of } 20$

= sweets

(c) 50% of 90 kg
=

(d) 25% of 12 sweets = =

(e) 25% of 40 pence = = (f) 10% of 80 kg = = =

(g) 20% of £I5 = =

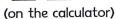
(h) 75% of £20 *(difficult)
= = =

REMEMBER:-

means









Change the following fractions into decimals:-2.

(a)
$$\frac{1}{4} = \boxed{1 \div 4 =}$$

(b)
$$\frac{1}{5} = \boxed{1 \div = }$$

(c)
$$\frac{3}{4} = 3 \div$$

(d)
$$\frac{1}{10} = \frac{8}{50} = \frac{1}{10}$$

(e)
$$\frac{8}{50}$$
 =

(f)
$$\frac{2l}{24} =$$

0.35

REMEMBER :- 35% =
$$\frac{35}{100}$$
.

Change these percentages into decimals:-3.

(a)
$$60\% = 60 \div 100 = 0$$

$$\frac{\text{REMEMBER}}{5} := \frac{3}{5} \text{ of } £20 = \boxed{3}$$

(on the calculator)

Calculate the following:-

(a)
$$\frac{3}{5}$$
 of £80 = $3 \div \times 80$

5

(b)
$$\frac{5}{-}$$
 of

(b)
$$\frac{5}{8}$$
 of £160 =

Change this decimal into a PERCENTAGE,then into a FRACTION:-5.

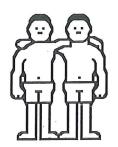
Homework Sheets Symmetry No.10b

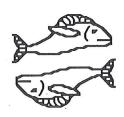
name	
date due back	
signed	score

Some of the objects below have line symmetry.

I. Draw all the lines of symmetry in colour or as dotted lines (use a ruler).





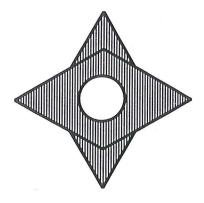




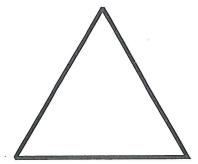












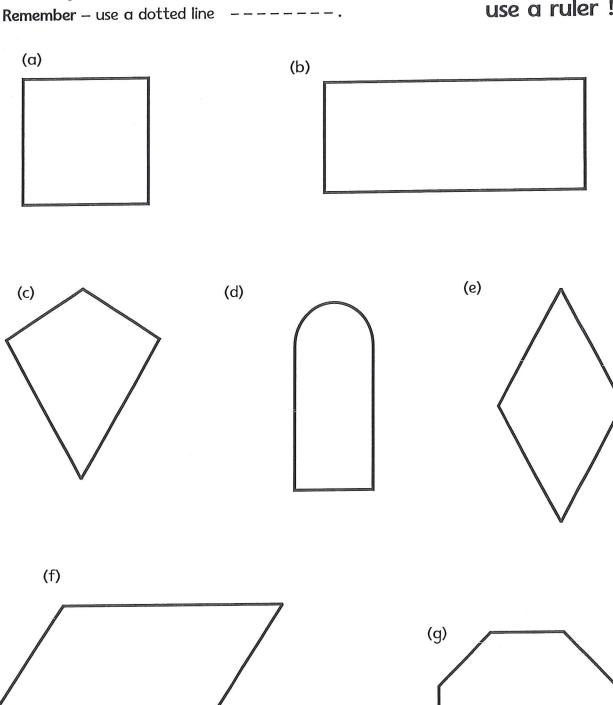


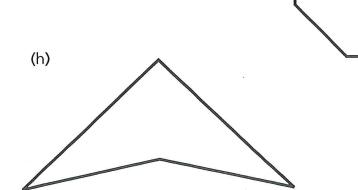


Some shapes have more than one line of symmetry.

Draw any lines of symmetry in each of the shapes below :-2.

use a ruler!



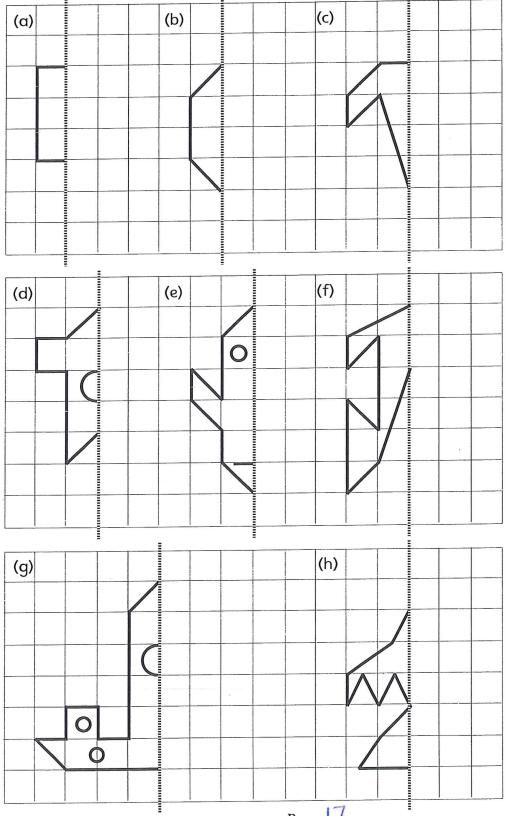


Page 16

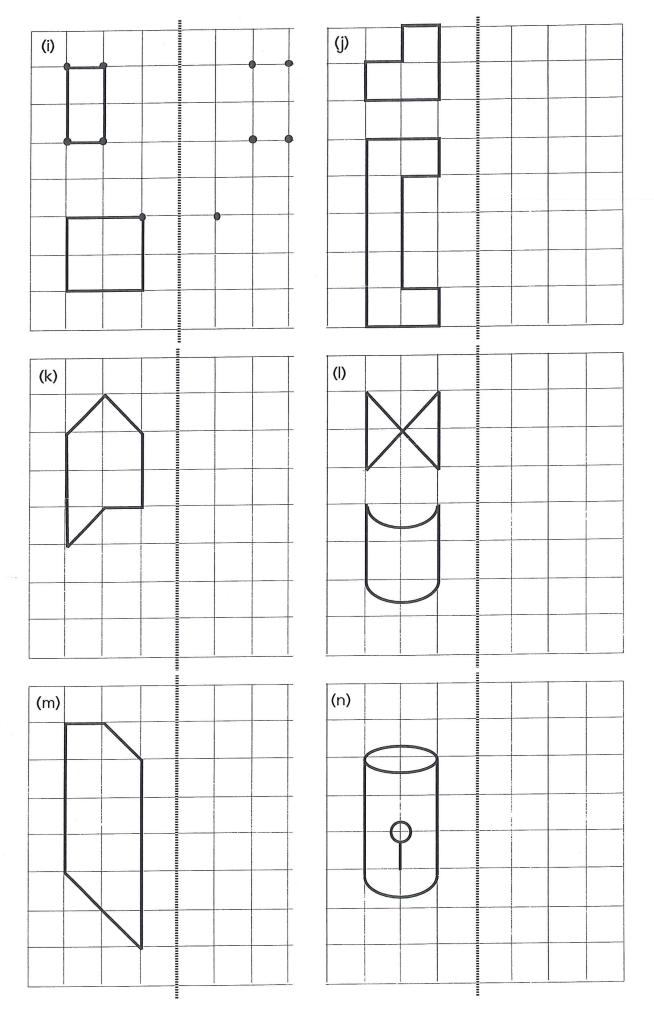
Homework Sheets Symmetry No.10c

name	
date due back	
signed	score

I. Complete the second half of each picture by drawing the reflection (use a ruler):-



Page 17



Angles

No. 2a

name	
date due back	
signed	score

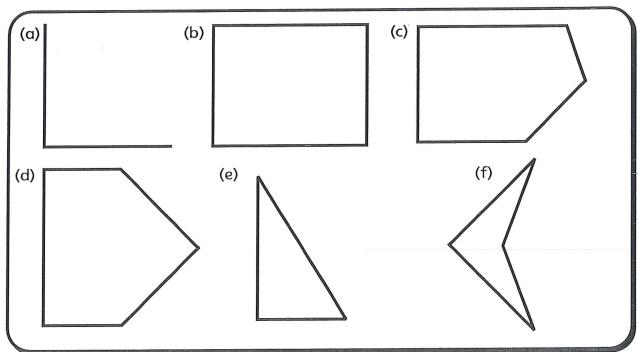
Remember:

To show a **right angle** we draw a small box in the corner.

The size of a right angle is 90 degrees



I. Mark all the right angles in the following diagrams.



- 2. Fill in the blank spaces with the correct number of degrees :
 - (a) There are

degrees one a right angle.



(b) There are

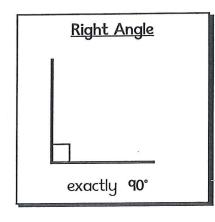
degrees in two right angles (a straight line).

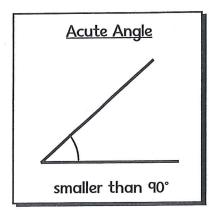


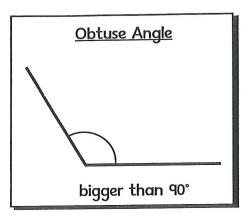
(c) There are

degrees in four right angles (round a point).

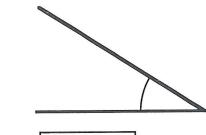
Remember :-



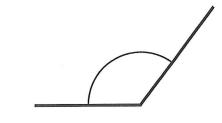




3. Say whether the angles below are **right**, **acute** or **obtuse** angles : Write your answers in the boxes.



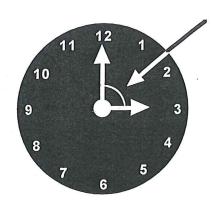
(a) angle



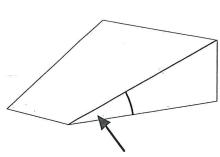
(b) angle



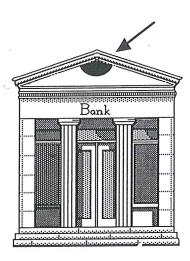
(c) angle



(d) angle



(e) angle



(f) angle

Angles

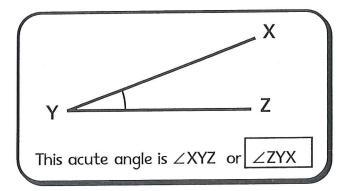
No. 2b

name	
date due back	
signed	score

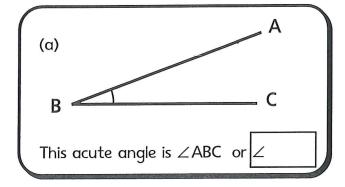
Remember :-

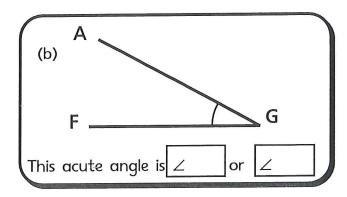
To <u>name</u> an angle we must use 3 <u>letters</u>.

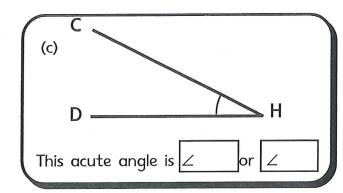
The corner letter (vertex) must be in the middle.

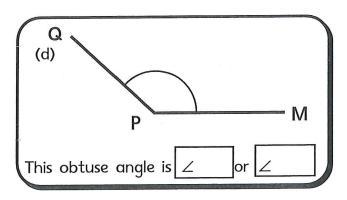


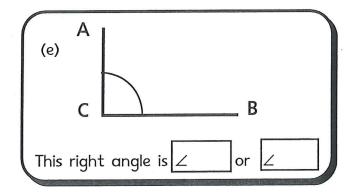
I. Name the angles below: -

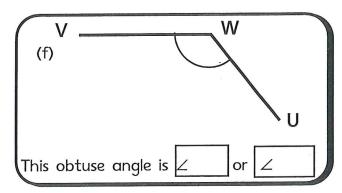


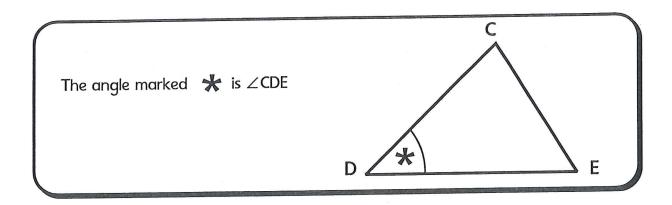




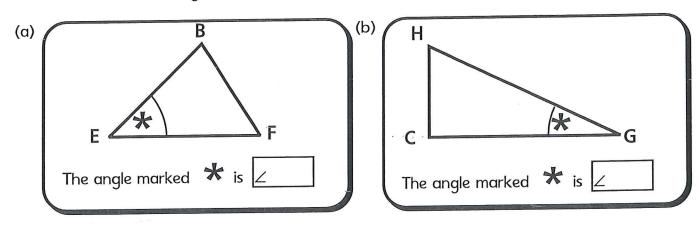


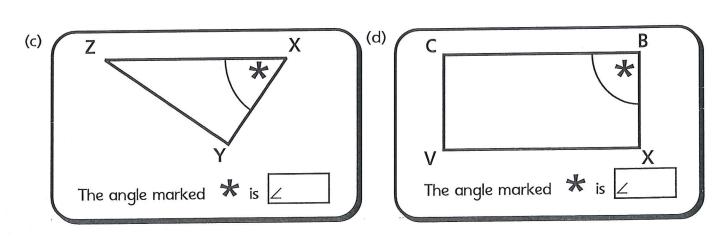


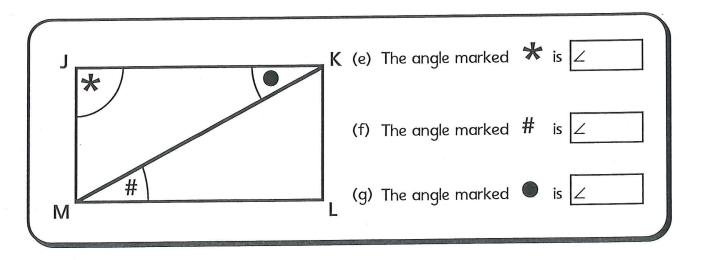




2. Name the angles marked :







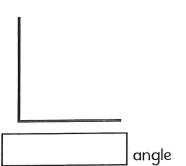
Angles

No. 2a

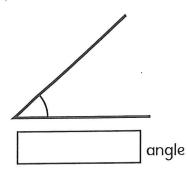
name	
date due back	
signed	score

Use RIGHT, ACUTE, OBTUSE or STRAIGHT to describe the types of angles here :-

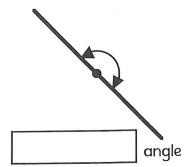
(a)



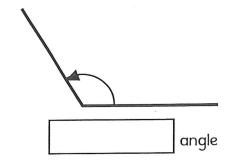
(b)

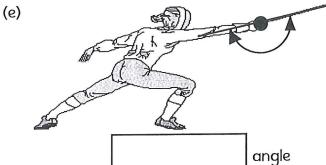


(c)

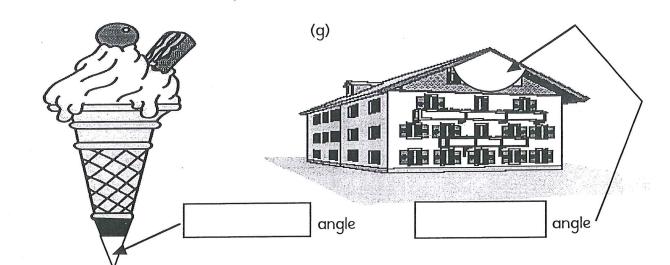


(d)





(f)



COMPLETE:-2.

> degrees in a right angle. (a) There are

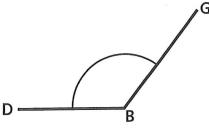
degrees in a straight angle. (b) There are

degrees in <u>two</u> straight angles. There are (c)

REMEMBER:-

To <u>name</u> an angle we must use 3 <u>letters</u>. Example :-

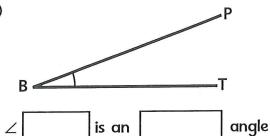
The corner letter (vertex) must be in the middle.



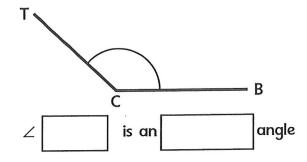
 \angle GBD is an obtuse angle

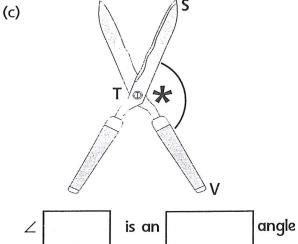
Name each angle below and say what type of angle it is. 3.

(a)

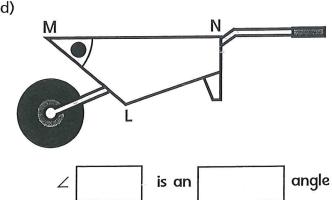


(b)





(d)



- Look at the diagram and fill in the boxes :- (the first one is done for you)
 - Name an ACUTE angle... (a)

∠ ABD

Name another ACUTE angle... (b)

Name a RIGHT angle...

(d) Name a STRAIGHT angle...

(c)

(e)

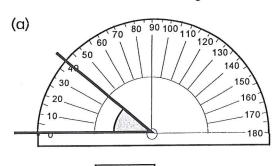
Name an OBTUSE angle...

Angles

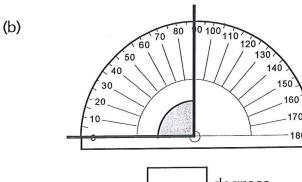
No. 2b

name	
date due back	
signed	score

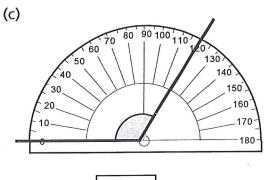
I. Write the size of each angle below.



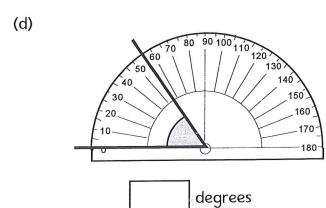
degrees



degrees

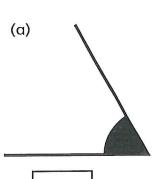


degrees

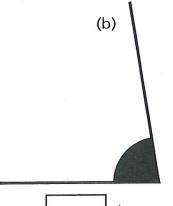


. . .

2. <u>Estimate</u> the size of these angles (do <u>not</u> use a protractor) :-



degrees



degrees

<u>Use a p</u> in this c	air of scissors t question - but [o cut carefull <u>l</u> OO NOT use ar	y round the n actual plas	protrac tic pro	ctor at the foot of the page t tractor to draw the angle.	o HELP you
3. (a)	Draw ∠ABC	(45°)		(b)	Draw ∠DEF (20°)	
Ā		E	3		D	E
(c)	Draw ∠XYZ	(I50°)			(d) Draw∠GHI (70°)	
X		Y			G	<u></u> Н
(e)	Draw ∠MNP					
					cut carefully around the protractor with a pair	is of scissors

N

M