TEACHER GILBERT

2

)What is the place value of total value of digit 6 underlined below: 3mks

47,397,263,402

Total value = Ten thousands

T.V = Place value × N

10,000 × 6

= 60,000

Round off the following numbers to the nearest indicated in the brackets (3mks)

473,678 (100)

473,678 — Go to the digit indicated then look at the right if it is more than five you add one to the other digit on the left as indicated.

= 473,700

379 (10)

379

= 380

38,679 (10,000)

38,679

40,000

Write in Symbols

Five billion, five million, five thousand and five

5,005,005,005

Write the following in words

80,000,045,000 (2mks)

Eighty billion, forty five thousand.

Express the following numbers as a product of their prime factors

900 (2mks)

900 → 5 × 180 → 5 × 36 → 3 × 12 → 3 × 4 → 2 × 2

$= 900 = 2^2 \times 3^2 \times 5^2$

300 (2mks)

300 → 5 × 60 → 5 × 12 → 3 × 4 → 2 × 2

$= 2^2 \times 3 \times 5^2$

1 (1 = 11 + 7 = 7

.1 196 (2mk)

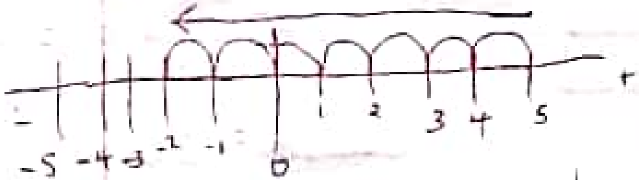
196
2 98
2 49 $= 2^2 \times 7$
7 7
7 1

64 (2mk)

2 32
2 16
2 8 $= 2^5$
2 4
2 2

Use the numberline

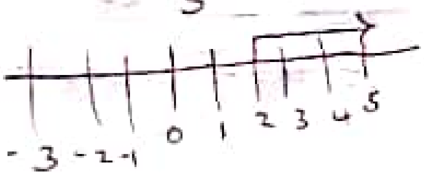
(+5) - (-2) (2mk)



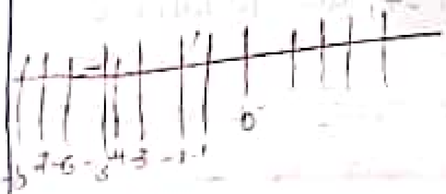
= 7

(+2) + (+3) 2mks

5



-7 - (-8) (2mks)



The GCD of two numbers is Is 12 and L.C.M. is 240 if one of the numbers is 60 find the numbers if 60 find the other number

$$\text{Number} = \frac{G.C.D \times L.C.M}{\text{Given number}}$$

$$= \frac{12 \times 240}{60}$$

$$= 48$$

If $x = -2$, $y = -6$ and $z = 4$. find the values of

(a) $4xy$ 3mks

$4(-2)(-6)$

$= 48$

(b) $4z + 2y - x$ (3mks

$4(4) + 2(-6) - (-2)$

$= 6$

Three tanks are capable of holding 30, 84, and 90 litres of milk.
Determine the capacity of the greatest vessel which can be used to fill each one of them an exact number of times

3	30	84	90
2	15	28	30
	6	14	15

= 3×2
= 6 Litres

Test whether the following numbers are divisible by 3

1257 4mks

1+2+5+7 = 15 / 3 =
is divisible by 3

7203

7+2+0+3 = 12
divisible by 3

Three bells ring at intervals of 40 minutes, 45 minutes and 60 minutes. If they ring simultaneous at 6:30am at what time will the next ring together

	40	45	60
2	20	45	30
2	10	45	15
3	5	45	15
3	5	15	5
5	5	5	5
	1	1	1

: 3

$2^3 \times 3^2 \times 5$

= 360 min

1hr = 60 min
360 min

360 min x 1 hr / 60 min = 6 hrs

6:30am
6

= 12:30 p.m

A bookstore had 30816 exercise books which were packed in cartons. Each carton contain 24 exercise books. The mass of empty carton was 2kg How many cartons were there

Bookstor = 30816
1 carton = 24 books

=

Number of cartons = 30816 / 24

= 1284 cartons

what was the totall mass in kg of the empty cartons (only)

empty carton = 2kg

full carton = 12kg

1284 X 2

= 2,568 kg

(2) what was the total mass in kg of books alone

book alone = 10kg X the number of cartons

= 1284 X 10 kg

= 12840 kg

How many faces does a cuboid has

= 6 faces

find the mean of the following

23, 35, 43, 22

mean = is the arithmetic average of a set of given numbers

$= \frac{23 + 35 + 43 + 22}{4}$

= 30.75