

rlZntAN

2+3=5

then 2÷5×12



ALPHA UNIVERSITY

BORAMA

Assignment of math's methods

Name:Rahmo mahamuud Abdi
The assignment
Individual assailment the assignment 30 marks
Submission date 05-05-2025
Express the ratio 12:16 in its simplest form.
${f A}$
NS
:3:
4
Divide \$120 in the ratio 2:3
${f A}$
NS
:

0 = 48

The ratio of cats to dogs in a pet shop is 4:7. If there are 28 dogs, how many cats are there?

Ans = $4 \div 7 = x \div 28 = 7 \times = 112$ each one $\div 7 = 16$ there fore 16cats

If a person earns \$240 for working 8 hours, what is the rate of pay per hour

ANS

•

rateper

$h=8\times240\times1=1920$

Are the ratios 6:9 and 8:12 proportional?

If 3 shirts cost \$45, how much would 5 shirts cost at the same ra

Ans

:

5shirt c

ost= $45 \div 3 \times 5 =$

&75

If 5 pens cost \$10, how much do 12 pens cost?

AN

S

12pen

cost is 10÷5×12=24

A class has 18 boys and 12 girls. What is the ratio of boys to the total number of students?

ANS:total ratio of student = sum boys and girls=30

Find 25% of 480.

```
AN
S:
actual price 25÷100×480=120
Sellingprice=costpr+profit=480+120=60
A jacket is sold for $150 after a 20% discount. What was the original price
ANS:
original=
saleprice_discount 2
0\div100\times150=30
11:
a 5% commission on sales. If they sell goods worth $2,000, how much commission do
ANS
c=Rc×AS 5÷100×2000=100
12:i
f 60% of a number is 180, what is the original numbe
A
NS
```

:

100_60=40%=0.40=0.40×180 original=72

13:

Find the simple interest on \$1,200 at a rate of 5% per annum for 3 year

Ans

:

first y5%×1200×1=60

Secondy5%×1

 $200 \times 2 = 120$

Thirdy5%×1200×3=180

14:

A sum of \$2,000 is invested at 10% per annum for 3 years compounded annually. Find the total amou

t

ANS:total = $10\% \times 10000 = 1000$ so 20000 + 1000 = 2100

b. 10%×1000=100 so 2100+100=2200

C: 10%1000=100 there fore =2200+100=2300

Total num=2300

15:

A loan of \$2,000 is given for 2 years at a rate of 6% per annum. What is the total amount to be repaid at the end of the period?

ANS:6%×1000=60 then 2000+60=2060

6%×10000=2060+60 so thetotal number=2120