1. The blood types of 150 people were deternained for a study as shown in the figure below.


If 1 peren from this study is randomly selected. Ahat is the probility that this person has either Typ A O Typ( AB lood?
A. $\frac{62}{150}$
B. $\frac{66}{150}$
C. $\frac{68}{150}$
D. $\frac{73}{150}$
E. $\frac{84}{150}$
2. The monthly fees for single rooms at 5 colleges are $\$ 370, \$ 310, \$ 380, \$ 340$, and $\$ 310$, respectively. What is the mean of these monthly fees?
$\begin{array}{ll}\text { F. } & \$ 310 \\ \text { H. } \\ \$ 340 \\ \text { H. } \\ \$ 342 \\ \text { J. } \\ \text { K. } \\ \$ 350 \\ \text { K }\end{array}$

$\frac{1710}{5}=342$
3. On a particular road map, $\frac{1}{2}$ inch represents 18 miles. About how many miles apart are 2 towns that are $2 \frac{1}{2}$ inches apart on this map?
A. 18
B. $22 \frac{1}{2}$
C. 36
D. 45
E. 90

4. Given $f=c d^{3}, f=450$, and $d=10$, what is $c$ ?
F. 0.45
G. 4.5
H. 15
J. 45
K. 150
$450=c \cdot 10^{3}$

$$
\begin{aligned}
& \frac{450}{1050}=\frac{1000 C}{1000} \\
& .45=\frac{450}{1000}=C
\end{aligned}
$$

5. If $f(x)=(3 x+7)^{2}$, then $f(1)=$ ?
A. 10
B. 16
C. 58
D.
E. 100

6. Jorge's current hourly wage for working at Dent Smiles $15 \$ 12.00$. Jorge was told that at the befinning of next math, his new hourly wage will be an increase of $6 \%, 0$ ) his current hourly wage. What wihbe Jorge's new hourly wage?
F. $\$ 12.06$
(1) $\$ 12.60$

H $\$ 12.72$
K. $\$ 19.20$

$$
1.06(12)=12.72
$$


8. The shipping rate for customers of Ship Quick consists of a fee per box and a price per pound for each box. The table below gives the fee and the price per pound for customers shipping boxes of various weights.

| Weight of box <br> (pounds) | Fee | Price per pound |
| :---: | :---: | :---: |
| Less than 10 | $\$ 5.00$ | $\$ 1.00$ |
| $10-25$ | $\$ 10.00$ | $\$ 0.65$ |
| More than 25 | $\$ 20.00$ | $\$ 0.30$ |

Oreg wants Ship Quick to ship 1 box that weighs
15 pounds. What is the shipping rate for this box?


