

(21) obs. in asc. order are

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22, 34, 39, 45, 54,  
54, 56, 68, 78, 84

no. of obs = 10 (even)

Middlemost terms

$$\frac{n}{2}, \frac{n}{2} + 1$$

$$\frac{10}{2}, \frac{10}{2} + 1$$

5<sup>th</sup>, 6<sup>th</sup>

$$\text{Median} = \frac{54 + 54}{2}$$

$$= \frac{108}{2}$$

$$= 54 \text{ (c)}$$

(22) class Marks of classes (c)

(23) no. of obs = 9 (odd)

Middlemost obs. =  $\frac{n+1}{2}$

$$= \frac{9+1}{2}$$

$$= 5^{\text{th}}$$

$$\therefore \text{Median} = 6 \text{ (c)}$$

(24) obs. in asc. order are

14, 14, 14, 14, 15, 15, 15, 15, 15

16, 17, 19, 19, 20

Mode = 15 (Most frequent obs)

ex 14.1, exemplar ix

(25) P(person has high school cert.)

$$= \frac{514}{642}$$

$$= \frac{257}{321}$$

$$\approx 0.8 \text{ (D)}$$

(26) P(child does not like potato chips)

$$= \frac{364 - 91}{364}$$

$$= \frac{273}{364}$$

$$= 0.75 \text{ (c)}$$

(27) P(blood group B)

$$= \frac{12}{40}$$

$$= \frac{3}{10} \text{ (c)}$$

(28) P(at most 1 head)

$$= \frac{250 + 550}{1000}$$

$$= \frac{800}{1000}$$

$$= \frac{8}{10}$$

$$= \frac{4}{5} \text{ (c)}$$

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