



## Warm Up Grade 7



Test Tomorrow

1) Find the mean, median, mode and range of the following:

a) ~~16, 27, 28, 17~~

16, 17, 27, 28

Sum = 88

$$\text{mean} = \frac{\text{add up}}{\# \text{ data}} = \frac{88}{4} = 22$$

$$\begin{aligned} \text{median} &\Rightarrow \text{middle} \\ &= \frac{17+27}{2} \\ &= \frac{44}{2} \\ &= 22 \end{aligned}$$

mode  $\Rightarrow$  repeated most  
No Mode

b) ~~5, 6, 8, 5, 7~~

5, 5, 6, 7, 8

$$\begin{aligned} \text{mean} &= \frac{31}{5} \\ &= 6.2 \end{aligned}$$

median = 6

mode = 5

2) The find the value of Ted's 5th test mark if he wants his MEAN to be 89% given his other test results to be 75%, 98%, 100%, 80%.

$$\text{mean} = \frac{\text{Sum}}{\# \text{ tests}}$$

$$89 = \frac{\text{Sum}}{5}$$

$$5 \times 89 = \frac{\text{Sum}}{5} \times 5$$

$$\boxed{445 = \text{Sum}}$$

~~- 353~~

92 on his next test.

353 already



## Warm Up Grade 7



Test Tomorrow

May 5, 2014

1) Find the mean, median, mode and range of the following:

a) 16, 27, 28, 17

b) 5, 6, 8, 5, 7

$$\begin{aligned} \text{Mean} &= \frac{16+27+28+17}{4} \\ &= \frac{88}{4} \\ &= 22 \end{aligned}$$

$$\begin{aligned} \text{Mean} &= \frac{5+6+8+5+7}{5} = \frac{31}{5} \\ &= 6.2 \end{aligned}$$

5, 5, 6, 7, 8  
median = 6

mode = 5

16, 17, 27, 28

$$\text{median} = \frac{17+27}{2} = \frac{44}{2} = 22$$

mode: No

\* 2) The find the value of Ted's 5th test mark if he wants his MEAN to be 89% given his other test results to be 75%, 98%, 100%, 80%.

$$\text{Mean} = \frac{\text{Sum}}{\# \text{ of data}}$$

$$\frac{75+98+100+80}{353}$$

1/2 pts

$$89 = \frac{\text{Sum}}{5}$$

$$\begin{aligned} \text{test Mark} &= 445 - 353 \\ &= 92\% \end{aligned}$$

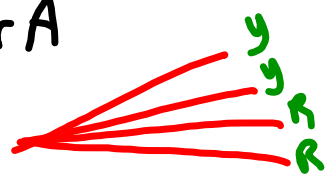
$$\begin{aligned} \text{Sum} &= 89 \times 5 \\ &= 445 \end{aligned}$$

Needs a 92%

1) c)

Spinner A

V



outcomes  
 VY  
 VY  
 VR  
 VR

1d)

P(make orange)  
 RY or YR

$$= \frac{4}{16}$$

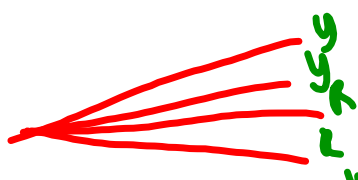
$$= \frac{1}{4}$$

$$= 0.25$$

$$= 25\%$$

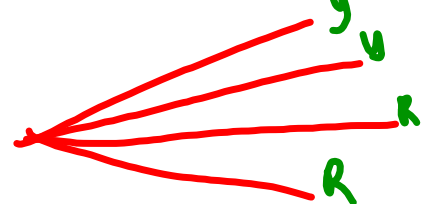
Top ÷ bott  
 Decimal  
 x100

Y



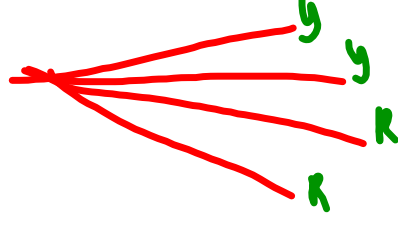
Yy  
 Yy  
 YR  
 YR

B

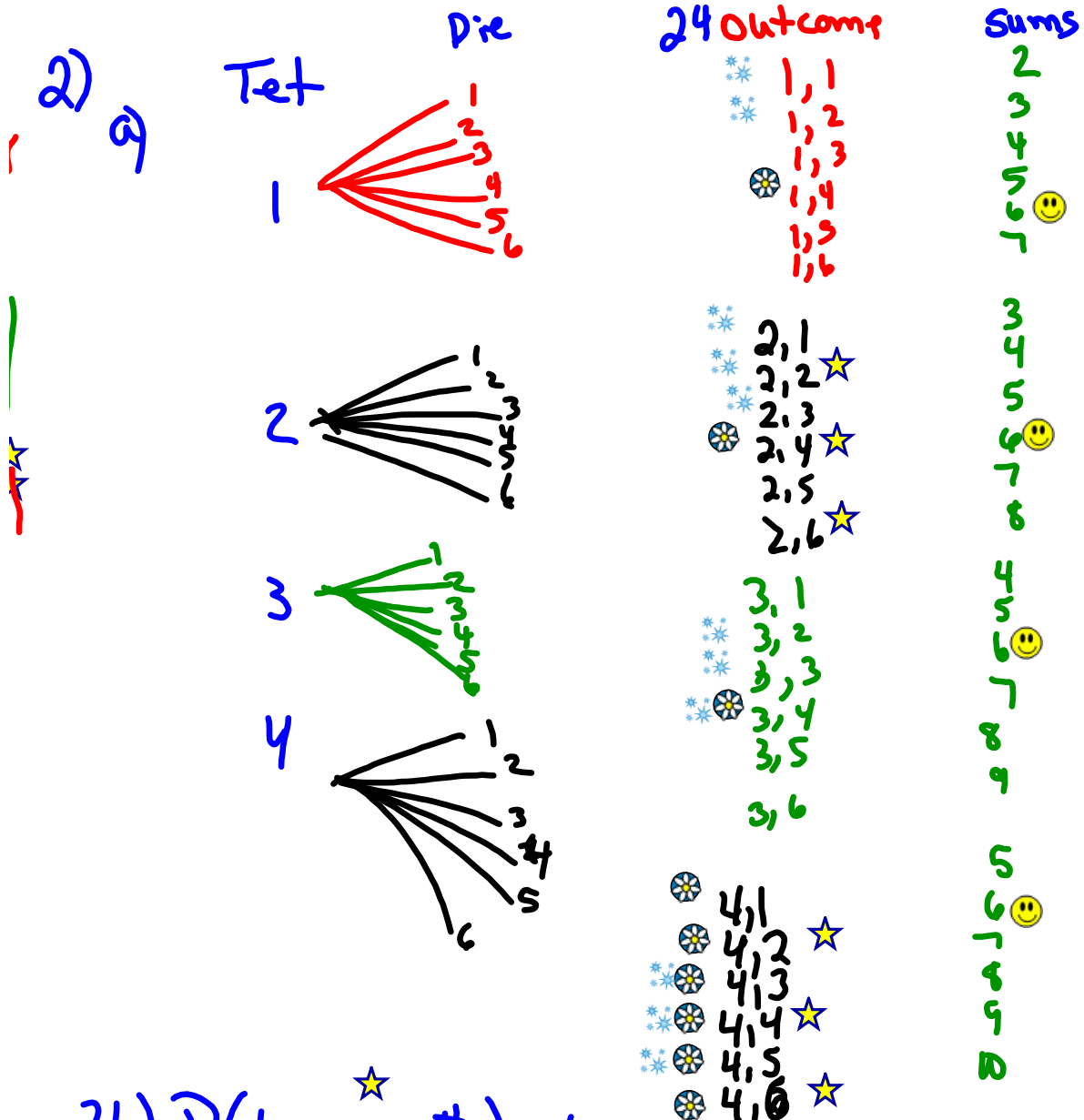


By  
 By  
 BR  
 BR

R



RY  
 RY  
 RR  
 RR



$$2b) \text{ i) } P(\text{two even \#s}) = \frac{6}{24} = \frac{1}{4} = 0.25 = 25\%$$

$$\text{ii) } P(\text{sum } 6) = \frac{4}{24} = \frac{1}{6}$$

$$\text{iii) } P(\text{roll } 4) = \frac{9}{24} = \frac{3}{8}$$

$$\text{iv) } P(\text{diff of } 0 \text{ or } 1) = \frac{11}{24}$$

3)d)

Spinner A

Spinner B

1



Outcomes

- 1, 3
- 1, 4
- 1, 5
- 1, 6

Sums (d)

- 4
- ✓ 5
- 6 \*
- 7

3e)

$$P(\text{sum } 9) = \frac{1}{12}$$

2

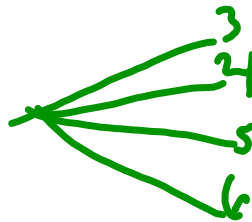


- 2, 3
- 2, 4
- 2, 5
- 2, 6

- ✓ 5
- 6 \*
- 7
- 8 \*

$$P(\text{sum } 6 \text{ or } 8) = \frac{5}{12}$$

3



- 3, 3
- 3, 4
- 3, 5
- 3, 6

- 6 \*
- 7
- 8 \*
- 9

$$P(\text{Sum } 5) = \frac{2}{12} = \frac{1}{6}$$

# Class/Homework

## Unit 7 Data Analysis Test (Tomorrow)

pg. 292 - 294 #7,8,9

Page 295 # 3,4,

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

$$P(\text{odd}) = \frac{\# \text{ odd}}{\text{total}} = \frac{10}{20} = \frac{1}{2} = 0.5 = 50\%$$

$$P(\text{mult of 4}) = \frac{5}{20} = \frac{1}{4} = 0.25 = 25\%$$

$$P(\text{Prime}) = \frac{8}{20} = \frac{2}{5} \\ = 0.4 \\ = 40\%$$

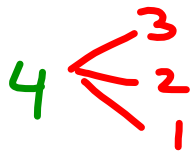
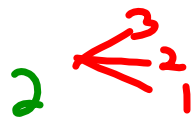
Test Outline

6 Mc

5 Short Response

- Calculate mean, median, mode, range
- Identify outliers and recalculate mean, median, mode, and range  
(Explain whether you think an outlier should be used)
- Probability of events happening (or Not happening)  
Ex) Bag of marbles
- Tree diagram, list outcomes and answer probability questions regarding results from tree diagram
- Similar to warm-ups and homework

8a) Product  $\rightarrow$  multiply



8a)

$$3, 3 = 9$$

$$3, 2 = 6$$

$$3, 1 = 3$$

$$2, 3 = 6$$

$$2, 2 = 4$$

$$2, 1 = 2$$

$$4, 3 = 12$$

$$4, 2 = 8$$

$$4, 1 = 4$$

b)

$$P(9) = \frac{1}{9}$$

$$P(6) = \frac{2}{9}$$

$$P(3) = \frac{1}{9}$$

$$P(4) = \frac{1}{9}$$

$$P(2) = \frac{1}{9}$$

$$P(12) = \frac{1}{9}$$

$$P(8) = \frac{1}{9}$$

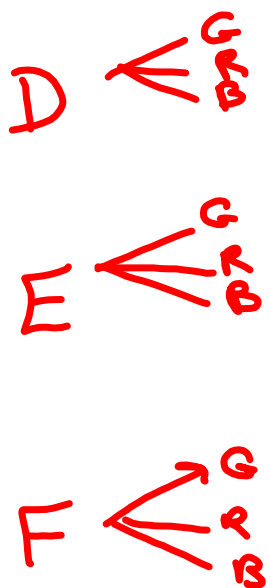
c) Equal Probabilities

product, 9, 3, 2, 12, 8  $\bar{w}$   $\frac{1}{9}$

product 4, 6  $\bar{w}$   $\frac{2}{9}$

d)  $P(\text{product less than 10}) = \frac{8}{9}$

a)



D G  
D R  
D B

E G  
E R  
E B

F G  
F R  
F B

b)

$$P(E) = \frac{3}{9} = \frac{1}{3}$$

$$= 0.\bar{3}$$

$$= 33\%$$

$$P(\text{Green}) = \frac{3}{9} = \frac{1}{3}$$

$$= 0.33$$

$$= 33\%$$

$$P(GE) = \frac{1}{9}$$

$$P(DR) = \frac{1}{9}$$



## Attachments

---

Extra Practice 6 tree.pdf