

Extra practice - ch 7 - Algebra 2/Trig

$$(2) \quad \underline{10 \cdot 10 \cdot 24} = 2400$$

$$(4) \quad {}_{18}P_3 = 4896$$

$$(6) \quad {}_{14}C_4 = 1001$$

$$(8) \quad \left. \begin{array}{ccc} & & b3 \\ & 54 & 64 \\ 45 & 55 & 65 \\ 36 & 46 & 56 & 66 \end{array} \right\} \frac{10}{36} = \frac{5}{18}$$

$$(10) \quad \frac{1}{4} = \frac{9}{36} \left\{ \begin{array}{ccc} 22 & 24 & 26 \\ 42 & 44 & 46 \\ 62 & 64 & 66 \end{array} \right.$$

$$(12) \quad \frac{11}{31} \quad (31 \text{ days in Jan})$$

$$(14) \quad \frac{4}{{}_{11}C_2} = \frac{4}{55}$$

$$(16) \quad \frac{\text{Area area above shaded region}}{\text{Area of whole}} = \frac{35(6)}{35(14)} = \frac{3}{7}$$

$$(18) \quad \frac{\text{Pink or Yellow}}{\text{Total}} = \frac{12+12}{50} = \frac{24}{50} = \frac{12}{25} = .48$$

$$(20) \frac{12}{52} \cdot \frac{40}{52} = \frac{3}{13} \cdot \frac{10}{13} = \frac{30}{169}$$

$$(22) \frac{53}{90} = .589$$

(24) independent

$$\frac{6}{18} \cdot \frac{5}{18} = \frac{5}{54}$$

(26)

	Bmc			
	.139	.251	.048	.438
Supper	.225	.155	.182	.542
	.364	.406	.230	1

$$(28) \frac{.182}{.23} \approx .79$$

(30) $P(< 10 \text{ or mult of } 5)$

$$P(< 10) + P(\text{mult of } 5) - P(< 10 \text{ and mult. of } 5)$$

$$\frac{9}{20} + \frac{4}{20} - \frac{1}{20} = \frac{12}{20} = \frac{3}{5}$$

(32)

		Students		
		yes	no	
have cats	yes	9	7	16
	no	19	15	34
		28	22	50

$$P(\text{student or cat}) = P(S) + P(C) - P(S \text{ and } C)$$

$$\frac{28}{50} + \frac{16}{50} - \frac{9}{50} = \frac{35}{50} = \frac{7}{10}$$