

9/20/20

Pg 306-308

Start 6:49-7:14

1. 2005 or 31.75%

$$\begin{array}{r}
 2.5 \text{, } 100 \\
 \underline{\times} \quad 8 \\
 \hline
 200 \\
 200 \\
 \hline
 2500
 \end{array}$$

$\frac{100}{2.5} \times \frac{8}{2.5}$
 $\underline{\times} \quad \underline{2.5}$
 \hline
 $10 \quad 8$
 $\underline{-} \quad \underline{2}$
 \hline
 76

$\frac{900}{19}$
 $\underline{\times} \quad \underline{19}$
 \hline
 70

$\frac{900}{19} \cdot 100 = \frac{9000}{19}$
 $\underline{\times} \quad \underline{19}$
 \hline
 70

$\frac{9000}{19} = 473$

NO

$\frac{9000}{19} = 473$

2. NO2.5, 100

$$\begin{array}{r}
 2.5 \text{, } 100 \\
 \underline{\times} \quad 8 \\
 \hline
 200 \\
 200 \\
 \hline
 2500
 \end{array}$$

$\frac{100}{2.5} \times \frac{8}{2.5}$
 $\underline{\times} \quad \underline{2.5}$
 \hline
 $10 \quad 8$
 $\underline{-} \quad \underline{2}$
 \hline
 76

$\frac{900}{19}$
 $\underline{\times} \quad \underline{19}$
 \hline
 70

$\frac{900}{19} \cdot 100 = \frac{9000}{19}$
 $\underline{\times} \quad \underline{19}$
 \hline
 70

$\frac{9000}{19} = 473$

3. C

$$\begin{array}{r}
 3.5 \text{, } 100 \\
 \underline{\times} \quad 8 \\
 \hline
 200 \\
 200 \\
 \hline
 2500
 \end{array}$$

$\frac{100}{3.5} = \frac{50}{1.75}$
 $\underline{\times} \quad \underline{1.75}$
 \hline
 $35 \quad 35$
 $\underline{-} \quad \underline{35}$
 \hline
 150

$\frac{1478}{150} = 0.7250$

140

100

70

300

4. A. 11

7 $\overline{)1.1.1.1.1.1.1}$

7 -

40 -

35 -

50 -

49 -

10

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Name: _____ Date: _____

$$9:33 - 9:42$$

Square Roots Worksheet

Solve.

$$1 \text{ a. } \sqrt{36} \\ 6 \quad 6 \times 6 = 36$$

$$2 \text{ a. } \sqrt{100} \\ 10 \times 10 = 100$$

$$3 \text{ a. } \sqrt{81} \\ 9 \times 9 = 81$$

$$4 \text{ a. } \sqrt{144} \\ 12 \times 12 = 144$$

$$5 \text{ a. } \sqrt{256} \\ 16 \times 16 = 256$$

$$6 \text{ a. } \sqrt{9} \\ 3 \times 3 = 9$$

$$7 \text{ a. } \sqrt{0} \\ 0 \times 0 = 0$$

$$8 \text{ a. } \sqrt{121} \\ 11 \times 11 = 121$$

$$1 \text{ b. } \sqrt{64} \\ 8 \times 8 = 64$$

$$2 \text{ b. } \sqrt{169} \\ 13 \times 13 = 169$$

$$3 \text{ b. } \sqrt{289} \\ 17 \times 17 = 289$$

$$4 \text{ b. } \sqrt{196} \\ 14 \times 14 = 196$$

$$5 \text{ b. } \sqrt{225} \\ 15 \times 15 = 225$$

$$6 \text{ b. } \sqrt{1} \\ 1 \times 1 = 1$$

$$7 \text{ b. } \sqrt{49} \\ 7 \times 7 = 49$$

$$8 \text{ b. } \sqrt{25} \\ 5 \times 5 = 25$$

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Name: _____ Date: _____

$$\text{Start } 9:43 - 9:47$$

Square Roots Worksheet

Solve.

$$1 \text{ a. } \sqrt{49} \times \sqrt{49} \\ 7 \times 7 = 49$$

$$2 \text{ a. } \sqrt{2 \times 8} \\ 2 \times 8 = 16 \quad \sqrt{16} = 4$$

$$3 \text{ a. } \sqrt{91} - 27 \\ 8 \quad 27$$

$$4 \text{ a. } \sqrt{24^2} \\ \sqrt{576} = 24$$

$$5 \text{ a. } \sqrt{49} + 0 \\ 7 + 0 = 7$$

$$6 \text{ a. } \frac{\sqrt{100}}{\sqrt{4}} \quad \frac{10}{2} = 5$$

$$1 \text{ b. } (\sqrt{16})^2 \\ \sqrt{16} = 4 \quad 4^2 = 16$$

$$2 \text{ b. } \sqrt{36} - \sqrt{81} \\ 6 - 9 = -3$$

$$3 \text{ b. } \sqrt{\frac{490}{10}} = \sqrt{49} = 7$$

$$4 \text{ b. } \sqrt{49} + \sqrt{100} \\ 7 + 10 = 17$$

$$5 \text{ b. } \sqrt{9} \times \sqrt{49} \\ 3 \times 7 = 21$$

$$6 \text{ b. } (\sqrt{100})^2 \\ \sqrt{100} = 10 \quad 10^2 = 100$$

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Name: _____ Date: _____

$$\text{Start } 9:48 - 9:50$$

Solve.

$$1 \text{ a. } \sqrt{91 + 9} \\ \sqrt{100} = 10$$

$$2 \text{ a. } \sqrt{4} + \sqrt{100} \\ 2 + 10 = 12$$

$$3 \text{ a. } \sqrt{9 + 0} \\ 3$$

$$4 \text{ a. } \sqrt{49} - \sqrt{144} \\ 7 - 12 = -5$$

$$5 \text{ a. } \sqrt{121} + \sqrt{49} \\ 11 + 7 = 18$$

$$6 \text{ a. } \sqrt{9} - \sqrt{9} \\ 3 - 3 = 0$$

$$7 \text{ a. } \sqrt{4} - \sqrt{121} \\ 2 - 11 = -9$$

$$1 \text{ b. } \sqrt{47 + 2} \\ \sqrt{49} = 7$$

$$2 \text{ b. } \sqrt{19 + 125} \\ \sqrt{144} = 12 \quad \frac{125}{144} X$$

$$3 \text{ b. } \sqrt{36} + \sqrt{49} \\ 6 + 7 = 13$$

$$4 \text{ b. } \sqrt{9} + \sqrt{25} \\ 3 + 5 = 8$$

$$5 \text{ b. } \sqrt{35 - 26} \\ \sqrt{9} = 3 \quad \frac{35 - 26}{9}$$

$$6 \text{ b. } \sqrt{245 - 101} \\ \sqrt{144} = 12$$

$$7 \text{ b. } \sqrt{33 + 3} \\ \sqrt{36} = 6$$

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Pg 304-305

Start 6:18 - 6:45

$$1 \quad \textcircled{120} \quad 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$$

70

$$2 \quad \textcircled{24} \quad 4 \cdot 3 \cdot 2 \cdot 1$$

66

$$2 \quad \textcircled{24} \quad 4 \cdot 3 \cdot 2 \cdot 1$$

120

	AB	AC	AD	BC	BD	CD	Total = 10
10	ABC	ACD	ADE	BCH	BDE	CDE	
	ABD	ACE		BCE			
	ABE						

$$4 \quad \textcircled{720} \quad 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$$

$$30 \quad 360 \quad \textcircled{720}$$

120

$$5 \quad \textcircled{360} \quad 6 \cdot 5 \cdot 4 \cdot 3$$

720

720

720

$$6 \quad \textcircled{6} \quad 3 \cdot 2 \cdot 1 = 6$$

$$7 \quad \textcircled{5,040} \quad 10 \cdot 9 \cdot 8 \cdot 7$$

$$90 \quad 90 \quad 70$$

840

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
20	ABC	ABD	ABE	ABF	ACD	ACE	ACF	ADF	AEF	BCD	BCE	BDF														
	ABE	ACD	ACE	ACF	BCD	BCE	BDF	BCE	BDF	BCF	BCG	BCF														
	ABF	ACD	ACE	ACF	BCD	BCE	BDF	BCE	BDF	BCF	BCG	BCF														

$$8 \quad \textcircled{C. 120} \quad 6 \cdot 5 \cdot 4$$

30

120

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Pg 298 - 299



Start - 4:21 - 4:35

1 $\frac{1}{36} = \frac{1}{6} \cdot \frac{1}{6}$

2 $\frac{1}{4} = \frac{1}{2} \cdot \frac{1}{2}$

3 $\frac{1}{8} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

4 $\frac{9}{38} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{9}{19} = \frac{9}{38}$

5 $\frac{1}{16} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$

6 $\frac{1}{4} = \frac{1}{2} \cdot \frac{1}{2}$

7 $\frac{1}{9} = \frac{1}{3} \cdot \frac{1}{3}$ or $\frac{1}{18}$

8 D $\frac{1}{3} \cdot \frac{1}{3} = \frac{1}{9}$

9 C $\frac{6}{10} = \frac{3}{5} \cdot \frac{2}{5} = \frac{15}{45} = \frac{1}{3}$

10 B $\frac{8}{10} = \frac{80}{100} = 80\%$

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pg 302 - 303

Start 5; 51 - 6:13

1 48

$$\begin{array}{r} 4 \cdot 3 \cdot 4 = 48 \\ \times 1 \\ \hline 48 \end{array}$$

$$3 \cdot 2 \cdot 4 = 24$$

2 24

3 27

$$3 \cdot 3 \cdot 3 = 3^3 = 27$$

4 24

$$2 \cdot 3 \cdot 4 = 24$$

5 5,184

$$\begin{array}{r} 2^3 \\ 24 \\ \times 9 \\ \hline 216 \\ 864 \\ 4320 \\ \hline 5184 \end{array}$$

6 A. 10

A	B	C	D	E	F
ABC	ACD	BCD	CD	Total	10
ABD	ACE	BCD	CD		
ABE		BCD	CD		
		BCF	CF		

7 C. 1024

$$4 \cdot 4 \cdot 4 \cdot 4 = 1024$$

16

$$\begin{array}{r} 2^5 \\ 256 \\ \hline 1024 \end{array}$$

8 A. 125

$$5^3 = 5 \cdot 5 \cdot 5 = 125$$

25 · 5

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Start 4:36 - 5:30

15

There are 5 members left out so 5

2	10	$A\bar{B}$	$A\bar{C}$	$A\bar{D}$	$\bar{B}C$	$\bar{B}\bar{D}$	$C\bar{D}$	10 Total
		$\bar{A}\bar{B}\bar{C}$	$\bar{A}\bar{B}\bar{D}$	$\bar{A}\bar{C}\bar{D}$	$\bar{B}\bar{C}\bar{D}$	$\bar{B}\bar{D}\bar{E}$	$C\bar{D}\bar{E}$	
				$A\bar{D}\bar{E}$	$\bar{B}\bar{C}\bar{D}$	$\bar{B}\bar{D}\bar{E}$	$C\bar{D}\bar{E}$	
				$A\bar{C}\bar{D}$	$\bar{B}\bar{C}\bar{D}$	$\bar{B}\bar{D}\bar{E}$	$C\bar{D}\bar{E}$	
				$A\bar{C}\bar{E}$	$\bar{B}\bar{C}\bar{E}$	$\bar{B}\bar{D}\bar{E}$	$C\bar{D}\bar{E}$	
					$\bar{B}\bar{C}\bar{E}$	$\bar{B}\bar{D}\bar{E}$	$C\bar{D}\bar{E}$	
						$\bar{B}\bar{D}\bar{E}$	$C\bar{D}\bar{E}$	
							$C\bar{D}\bar{E}$	

3 ④ He will choose 3 toppings and there are 4 toppings available
So there a total of $4 \times 3 = 12$ combinations ④

4 ① AB, AC, AD, AE, BC, BD, BE, CD, CE, DE Total

5 A Some question as #1 worded differently.

B AB, AC, AD, BC, BD, CD 6 total

\overline{AB}	\overline{AC}	\overline{AD}	\overline{BC}	\overline{BD}	\overline{CD}	
\overline{ABC}	\overline{ACD}	\overline{ADE}	\overline{BCD}	\overline{BDE}	\overline{CDE}	
\overline{ABD}	\overline{ACD}	\overline{ACE}	\overline{BCF}	\overline{BCE}	\overline{CF}	
\overline{ABD}	\overline{ACD}	\overline{ACE}	\overline{BCF}	\overline{BCE}	\overline{CF}	
						$= 10$

$AB, AC, AD, AE, BC, BD, BE, CD, CE, DE = 16$

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Pg 296-297

Start - 4:09 - 4:20

1 ②

$$\frac{2}{5} = \frac{20}{50}$$

$$\frac{12}{40} = \frac{6}{20}$$

$$\frac{3}{10} = \frac{3}{10} = 30\%$$

$$\frac{2}{5} = \frac{1}{5} = 20\%$$

$$\frac{60}{240} = \frac{30}{120} = \frac{1}{4} = 25\%$$

$$\frac{2}{6} = \frac{1}{3} = 33\%$$

$$6:6 = 50\%$$

$$\frac{3}{12} = \frac{1}{4} = \frac{9}{36} = 25\%$$

$$\frac{16}{40} = \frac{8}{20} = \frac{4}{10} = \frac{2}{5} = 40\% \text{ D}$$

$$\frac{5}{8} = 62.5\%$$

$$9 \text{ A}$$

$$The \text{ opposite} \text{ of the last question, so } 30 \text{ out of } 5.$$