

Fractions Homework (1)

What is the Fraction of the Shaded Area?

1.  $\frac{1}{8}$
2.  $\frac{2}{4}$ or $\frac{1}{2}$
3.  $\frac{3}{5}$
4.  $\frac{3}{5}$
5.  $\frac{6}{8}$ or $\frac{3}{4}$

Shade the Figure with the Indicated Fraction

6.  $\frac{2}{8}$
7.  $\frac{1}{4}$
8.  $\frac{3}{4}$
9.  $\frac{4}{5}$
10.  $\frac{4}{5}$

Equivalent Fractions

11. $\frac{3}{4} = \frac{18}{24}$
12. $\frac{1}{2} = \frac{4}{8}$
13. $\frac{1}{4} = \frac{6}{24}$
14. $\frac{4}{6} = \frac{20}{30}$
15. $\frac{2}{6} = \frac{6}{18}$

Lowest Terms (Reducing Fractions)

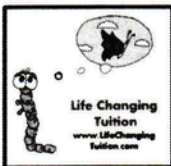
16. $\frac{6}{12} = \frac{1}{2}$
17. $\frac{8}{12} = \frac{2}{3}$
18. $\frac{20}{100} = \frac{1}{5}$
19. $\frac{40}{50} = \frac{4}{5}$
20. $\frac{21}{35} = \frac{3}{5}$
21. $\frac{10}{20} = \frac{1}{2}$
22. $\frac{20}{50} = \frac{2}{5}$
23. $\frac{2}{6} = \frac{1}{3}$
24. $\frac{5}{20} = \frac{1}{4}$
25. $\frac{9}{12} = \frac{3}{4}$

Converting Improper to Mixed Fractions

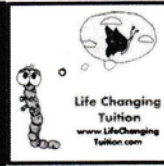
26. $\frac{10}{4} = 2\frac{2}{4}$ or $2\frac{1}{2}$
27. $\frac{11}{2} = 5\frac{1}{2}$
28. $\frac{22}{4} = 5\frac{2}{4}$ or $5\frac{1}{2}$
29. $\frac{12}{5} = 2\frac{2}{5}$
30. $\frac{64}{10} = 6\frac{4}{10} = 6\frac{2}{5}$
31. $\frac{21}{2} = 10\frac{1}{2}$
32. $\frac{29}{4} = 7\frac{1}{4}$
33. $\frac{17}{3} = 5\frac{2}{3}$

Converting Mixed to Improper Fractions

34. $6\frac{3}{4} = \frac{27}{4}$
35. $9\frac{2}{5} = \frac{47}{5}$
36. $7\frac{1}{2} = \frac{15}{2}$
37. $9\frac{1}{5} = \frac{46}{5}$
38. $9\frac{2}{3} = \frac{29}{3}$
39. $8\frac{1}{2} = \frac{17}{2}$
40. $9\frac{1}{3} = \frac{28}{3}$
41. $6\frac{3}{10} = \frac{63}{10}$



Fractions Homework (2)



Adding Simple Fractions

$$42. \quad \frac{2}{8} + \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$$

$$43. \quad \frac{5}{11} + \frac{5}{11} = \frac{10}{11}$$

$$44. \quad \frac{1}{12} + \frac{8}{12} = \frac{9}{12} = \frac{3}{4}$$

$$45. \quad \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$46. \quad \frac{1}{3} + \frac{4}{5} = 1\frac{2}{15}$$

$$\frac{1}{3} = \frac{5}{15} \quad \frac{4}{5} = \frac{12}{15}$$

$$\frac{5}{15} + \frac{12}{15} = \frac{17}{15} = 1\frac{2}{15}$$

$$47. \quad \frac{1}{2} + \frac{3}{5} = 1\frac{11}{10}$$

$$\frac{1}{2} = \frac{5}{10} \quad \frac{3}{5} = \frac{6}{10}$$

$$\frac{5}{10} + \frac{6}{10} = \frac{11}{10} = 1\frac{1}{10}$$

$$48. \quad \frac{5}{10} + \frac{1}{2} = 1$$

$$\frac{5}{10} = \frac{5}{10}$$

$$\frac{1}{2} = \frac{5}{10}$$

$$\frac{5}{10} + \frac{5}{10} = \frac{10}{10} = 1$$

Subtracting Simple Fractions

$$49. \quad \frac{5}{10} - \frac{1}{10} = \frac{4}{10}$$

$$50. \quad \frac{2}{3} - \frac{1}{3} = \frac{1}{3}$$

$$51. \quad \frac{5}{9} - \frac{2}{9} = \frac{3}{9} = \frac{1}{3}$$

$$52. \quad \frac{3}{10} - \frac{1}{10} = \frac{2}{10} = \frac{1}{5}$$

$$53. \quad \frac{2}{5} - \frac{1}{3} = \frac{1}{15}$$

$$54. \quad \frac{4}{5} - \frac{3}{4} = \frac{1}{20}$$

$$\frac{4}{5} = \frac{16}{20} \quad \frac{3}{4} = \frac{15}{20}$$

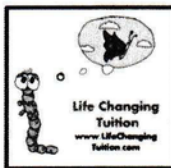
$$\frac{16}{20} - \frac{15}{20} = \frac{1}{20}$$

$$55. \quad \frac{1}{2} - \frac{2}{5} = \frac{1}{10}$$

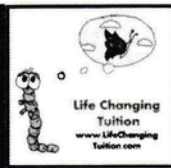
$$\frac{1}{2} = \frac{5}{10}$$

$$\frac{2}{5} = \frac{4}{10}$$

$$\frac{5}{10} - \frac{4}{10} = \frac{1}{10}$$



Fractions Homework (3)



Multiplying Fractions

$$56. \quad \frac{1}{2} \times \frac{8}{10} = \frac{4}{5}$$

$$57. \quad \frac{9}{10} \times \frac{2}{5} = \frac{9}{25}$$

$$58. \quad \frac{2}{4} \times \frac{2}{3} = \frac{1}{3}$$

$$59. \quad \frac{1}{4} \times \frac{7}{10} = \frac{7}{40}$$

Comparing Fractions

$$64. \quad \frac{1}{6} < \frac{1}{3}$$

$$65. \quad \frac{6}{10} < \frac{5}{7}$$

$$66. \quad \frac{1}{3} < \frac{1}{2}$$

Dividing Fractions

$$60. \quad \frac{5}{10} \div \frac{4}{5} = \frac{5}{8}$$

$$61. \quad \frac{1}{5} \div \frac{2}{3} = \frac{3}{10}$$

$$62. \quad \frac{3}{4} \div \frac{6}{10} = 1 \frac{1}{4}$$

$$63. \quad \frac{1}{2} \div \frac{2}{5} = \frac{5}{4}$$

Fraction of Quantity and Missing Quantity

$$67. \quad \text{Find } \frac{2}{3} \text{ of } 36 = 24$$

$$68. \quad \text{Find } \frac{3}{5} \text{ of } 150 = 90$$

$$69. \quad \text{Find } \frac{3}{4} \text{ of } 48 = 36$$

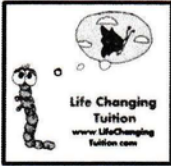
$$70. \quad 32 \text{ is } \frac{4}{5} \text{ of what number? } 40$$

$$71. \quad 45 \text{ is } \frac{3}{5} \text{ of what number? } 75$$

$$72. \quad 32 \text{ is } \frac{2}{10} \text{ of what number? } 160$$

$$\div \frac{2}{10} \text{ of } \square = 32$$

$$32 \div 2 = 16 \rightarrow 16 \times 10 = 160$$



Fractions Homework (4)



73. There are 24 hours in a day – Beyoncé sleeps $\frac{3}{8}$ of the day. How much time has she spent sleeping?

$$\begin{array}{l} \times \frac{3}{8} \text{ of } 24 = 9 \text{ hours} \\ \div 8 \end{array}$$

74. Batman is 160cm tall and Robin is $\frac{7}{8}$ as tall as him. How tall is Robin?

$$\begin{array}{l} \times \frac{7}{8} \text{ of } 160 = 140 \text{ cm} \\ \div 8 \end{array}$$

75. There 300 Kids in a school – $\frac{2}{5}$ of them like Adele the singer. How many kids don't like Adele?

$\frac{2}{5}$ like $\rightarrow \frac{3}{5}$ don't like

$$\begin{array}{l} \times \frac{3}{5} \text{ of } 300 = 180 \\ \div 5 \end{array}$$

76. Zayn has £64 – he give $\frac{1}{8}$ to Katy Perry and $\frac{3}{8}$ to Taylor Swift. How much does he keep for himself?

$$\begin{array}{l} \text{(Katy)} \\ \frac{1}{8} + \frac{3}{8} = \frac{4}{8} \end{array}$$

so Zayn has $\frac{4}{8}$ for himself

$$\begin{array}{l} \times \frac{4}{8} \text{ of } 64 = \cancel{f}32 \\ \div 8 \end{array}$$

He keeps
£32

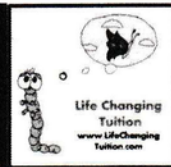
77. 500 ml of 2500 ml of bottle of orange squash is concentrate. What fraction is concentrate?

$$\frac{500}{2500} = \frac{5}{25} = \frac{1}{5}$$

$\frac{1}{5}$ is
concentrate



Fractions Homework (5)



78. Tesco normally sells Twix bars for 40 pence. The sign says if I buy 3 I can have them for $\frac{1}{4}$ less than the normal price.

i) How much can I buy 3 Twix bars for?

ii) How much does each Twix bar cost?

$$\begin{aligned} \text{i) } 3 \times 40 &= 120 \\ \frac{1}{4} \text{ of } 120p &= 30p \\ 120 - 30p &= 90p \end{aligned}$$

$$\text{ii) } 90p \div 3 = 30p$$

79. If $\frac{5}{12}$ of box of chocolates weigh 20g, what is the weight of the whole box of chocolates?

$$\begin{array}{r} \div 5 \\ \times 12 \end{array} \text{ of } \square = 20$$

$$\begin{aligned} 20 \div 5 &= 4 \\ \downarrow \\ 4 \times 12 &= 48 \end{aligned}$$

$$\boxed{48g}$$

80. If $\frac{2}{5}$ of my money is 50p – what is value is all my money?

$$\begin{array}{r} \div 2 \\ \times 5 \end{array} \text{ of } \square = 50$$

$$50 \div 2 = 25$$

$$\begin{array}{r} \downarrow \\ 25 \times 5 = 125 \end{array}$$

$$\textcircled{\pounds 1.25}$$

81. After I brought a phone costing £200, one third of what I had left was £60. How much money did I have at first? £380

$$\textcircled{1} \quad \begin{array}{r} \div 1 \\ \times 3 \end{array} \text{ of } \square = 60 \quad \left| \quad \begin{array}{r} 60 \div 1 = 60 \\ \downarrow \\ 60 \times 3 = 180 \end{array} \right.$$

$$\textcircled{2} \quad 180 + 200 = \pounds 380 \quad \pounds 380$$

How many $\frac{1}{3}$ are there in

82. $\frac{2}{3} \rightarrow 2$

83. $\frac{7}{3} \rightarrow 7$

84. 4 $\rightarrow 4 \times 3 = 12$

85. 3 and a $\frac{1}{3} \rightarrow 10$

$$3\frac{1}{3} = \frac{10}{3} = .$$

COMPREHENSION: OSTRICHES	SPELLING	Nouns	VR	NVR
86 B	106 b) absence	116 B	132 d	160 b
87 A	107 c) accommodate	117 A	133 p	161 e
88 D	108 c) achieve	118 C	134 l	162 a
89 C	109 a) acquire	119 A	135 w	163 c
90 B	110 d) address	120 B	136 n	164 d
91 D	111 c) advertise	121 A	137 l	165 b
92 C	112 a) advice	122 A	138 l	166 d
93 B	113 b) animals	123 B	139 h	167 a
94 D	114 b) another	124 C	140 f	168 c
95 B	115 b) apparent	125 B	141 m	169 c
96 D		126 D	142 l	170 d
97 C		127 A	143 p	171 b
98 A		128 B	144 g	172 e
99 C		129 A	145 d	173 a
COMPREHENSION: SOAP		130 A	146 e	174 d
100 C		131 C	147 c	
101 B			148 w	
102 D			149 h	
103 A			150 o	
104 C			151 f	
105 D			152 t	
			153 k	
			154 n	
			155 p	
			156 d	
			157 m	
			158 k	
			159 r	