**Find each sum or difference.**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** | $$ \frac{4}{5}+\left(-\frac{2}{3}\right)=$$ |  **2.** | $$ 3\frac{3}{4}+5\frac{3}{12}=$$ |
|  |  |  |  |
| **3.** | $$ -\left( \frac{2}{3}\right)^{2}+\left(-\frac{4}{36}\right)=$$ | **4.** | $$ - 7\frac{7}{8}+1\frac{3}{24}-2\frac{1}{6}=$$ |
|  |  |  |  |
| **5.** | $$ - \frac{7}{8}+\left(\frac{3}{4}-\frac{2}{3}\right)=$$ | **6.** | $$ \left( 2- \frac{1}{3}\right)+\left(-\frac{1}{10}+\frac{2}{3}\right)$$ |
|  |  |  |  |
| **7.** | $$ -4-3.22+4.2=$$ |  **8.** | $$ 13.11-\left(-7.9\right)-2^{3}=$$ |
|  |  |  |  |
| **9.** | $$ -7+\left(261.06-\left(-515.34\right)\right)=$$ | **10.** | $$ \left(10.05+\left(-7.9\right)\right)-\left(56.2\right)=$$ |
|  |  |  |  |

**Find each product.**

|  |  |  |  |
| --- | --- | --- | --- |
| **11.**  | $$ \frac{8}{14}\*\left(\frac{-7}{16}\right)=$$ | **12.**  | $$ 2\frac{1}{6}\*\frac{\left(-12\right)}{13}=$$ |
|  |  |  | $$ $$ |
| **13.** | $$ - 4\frac{1}{6}\*3\frac{6}{10}=$$ | **14.** | $$- 7\frac{4}{9}\*36=$$ |
|  | $$ $$ |  | $$ $$ |
| **15.**  | $$ 7.4\*\left(-0.2\right)=$$ | **16.**  | $$ \left(-0.06\right)\*\left(-5.6\right)=$$ |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **17.**  | $$ 121.4\*\left(-2\right)=$$ | **18.**  | $$ \left(-10.02\right)\*\left(-1.3\right)=$$ |
|  |  |  |  |

**Find each quotient.**

|  |  |  |  |
| --- | --- | --- | --- |
| **19.**  | $$ \frac{3}{10}÷\left(\frac{-6}{15}\right)=$$ | **20.**  | $$ 4\frac{1}{4}÷\left(-15\right)=$$ |
|  |  |  | $$ $$ |
| **21.**  | $$ -1.3÷\left(-2.2\right)=$$ | **22.**  | $$ \left(-16.06\right)÷12.3=$$ |
|  | $$ $$ |  |  |

**ANSWERS**

**Find each sum or difference.**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** | $$ \frac{4}{5}+\left(-\frac{2}{3}\right)=$$ |  **2.** | $$ 3\frac{3}{4}+5\frac{3}{12}=$$ |
|  | $$= \frac{4}{5}+\left(-\frac{2}{3}\right)$$$$= \frac{12}{15}+\left(-\frac{10}{15}\right)$$$$=\frac{2}{15}$$ |  | $$= 3\frac{3}{4}+5\frac{3}{12}$$$$=3\frac{9}{12}+5\frac{3}{12}$$$$=8\frac{12}{12}$$$$=9$$ |
| **3.** | $$ -\left( \frac{2}{3}\right)^{2}+\left(-\frac{4}{36}\right)=$$ | **4.** | $$ = - 7\frac{7}{8}+1\frac{3}{24}-2\frac{1}{6}=$$ |
|  | $$= -\left( \frac{2}{3}\right)^{2}+\left(-\frac{4}{36}\right)$$$$= -\frac{4}{9}+\left(-\frac{4}{36}\right)$$$$=- \frac{16}{36}-\frac{4}{36}$$$$= - \frac{20}{36}$$$$=\frac{-5}{9}$$ |  | $$ = - 7\frac{7}{8}+1\frac{3}{24}-2\frac{1}{6}$$$$= -7\frac{21}{24}+1\frac{3}{24}-2\frac{4}{24}$$$$=-8\frac{22}{24}$$$$=-8\frac{11}{12}$$ |
| **5.** | $$ - \frac{7}{8}+\left(\frac{3}{4}-\frac{2}{3}\right)=$$ | **6.** | $$ \left( 2- \frac{1}{3}\right)+\left(-\frac{1}{10}+\frac{2}{3}\right)$$ |
|  | $$ = - \frac{7}{8}+\left(\frac{3}{4}-\frac{2}{3}\right)$$$$=- \frac{7}{8}+\left(\frac{9}{12}-\frac{8}{12}\right)=$$$$=- \frac{7}{8}+\frac{1}{12}=$$$$=- \frac{21}{24}+\frac{2}{24}=$$$$=\frac{-19}{24}$$ |  | $$ = \left( 2- \frac{1}{3}\right)+\left(-\frac{1}{10}+\frac{2}{3}\right)$$$$ =\left( \frac{6}{3}- \frac{1}{3}\right)+\left(-\frac{3}{30}+\frac{20}{30}\right)$$$$=\frac{5}{3}+\frac{17}{30}$$$$=\frac{50}{30}+\frac{17}{30}$$$$=\frac{67}{30}$$ |
| **7.** | $$ -4-3.22+4.2=$$ |  **8.** | $$ 13.11-\left(-7.9\right)-2^{3}=$$ |
|  | $$= -4-3.22+4.2$$$$=-7,22+4.2$$$$=-3.02$$ |  | $$=13.11-\left(-7.9\right)-2^{3}$$$$=13.11+7.9-8$$$$=21.01-8$$$$=13.01$$ |
| **9.** | $$ -7+\left(261.06-\left(-515.34\right)\right)=$$ | **10.** | $$ \left(10.05+\left(-7.9\right)\right)-\left(56.2\right)=$$ |
|  | $$= -7+\left(261.06-\left(-515.34\right)\right)$$$$=-7+\left(261.06+515.34\right)$$$$=-7+776.4$$$$=769.4$$ |  | $$ =\left(10.05+\left(-7.9\right)\right)-\left(-56.2\right)$$$$=\left(10.05-7.9\right)+56.2$$$$=2.15+56.2$$$$=58.35$$ |

**Find each product.**

|  |  |  |  |
| --- | --- | --- | --- |
| **11.**  | $$ \frac{8}{14}\*\left(\frac{-7}{16}\right)=$$ | **12.**  | $$ 2\frac{1}{6}\*\frac{\left(-12\right)}{13}=$$ |
|  | $$ = \frac{8}{14}\*\left(\frac{-7}{16}\right)$$$$= \frac{8\*7\*(-1))}{2\*7\*2\*8}$$$$=\frac{-1}{4}$$ |  | $$= 2\frac{1}{6}\*\frac{\left(-12\right)}{13}$$$$= \frac{13}{6}\*\frac{\left(-12\right)}{13}$$$$= \frac{13\*6\*\left(-2\right)}{6\*13}$$$$= \frac{\left(-2\right)}{1}$$$$=-2 $$ |
| **13.** | $$ - 4\frac{1}{6}\*3\frac{6}{10}=$$ | **14.** | $$- 7\frac{4}{9}\*36=$$ |
|  | $$= - 4\frac{1}{6}\*3\frac{6}{10}$$$$= \frac{-25}{6}\*\frac{36}{10}=$$$$= \frac{5\*(-5)\*6\*6}{6\*2\*5}$$$$= \frac{-30}{2}$$$$=-15$$ |  | $$= - 7\frac{4}{9}\*36$$$$= \frac{-67}{9}\*\frac{36}{1}=$$$$= \frac{(-67)\*9\*4}{9\*1}$$$$= \frac{(-67)\*4}{1}$$$$=-268$$ |
| **15.**  | $$ 7.4\*\left(-0.2\right)=$$ | **16.**  | $$ \left(-0.06\right)\*\left(-5.6\right)=$$ |
|  | $$= 7.4\*\left(-0.2\right)$$$$=\frac{74}{10}\*\frac{\left(-2\right)}{10}$$$$=\frac{74\*\left(-2\right)}{10\*10}$$$$=\frac{-148}{100}$$$$=-1.48$$ |  | $$= \left(-0.06\right)\*\left(-5.6\right)$$$$=\frac{-6}{100}\*\frac{-56}{10}$$$$=\frac{\left(-6\right)\*\left(-56\right)}{100\*10}$$$$=\frac{336}{1,000}$$$$=0.336$$ |

|  |  |  |  |
| --- | --- | --- | --- |
| **17.**  | $$ 121.4\*\left(-2\right)=$$ | **18.**  | $$ \left(-10.02\right)\*\left(-1.3\right)=$$ |
|  | $$ 121.4\*\left(-2\right)$$$$=\frac{1214}{10}\*\frac{\left(-2\right)}{1}$$$$=\frac{1214\*\left(-2\right)}{10\*1}$$$$=\frac{-2,428}{10}$$$$=-242.8$$ |  | $$= \left(-10.02\right)\*\left(-1.3\right)$$$$=\frac{-1002}{100}\*\frac{-13}{10}$$$$=\frac{\left(-1002\right)\*\left(-13\right)}{100\*10}$$$$=\frac{13,026}{1,000}$$$$=13.026$$ |

**Find each quotient.**

|  |  |  |  |
| --- | --- | --- | --- |
| **19.**  | $$ \frac{3}{10}÷\left(\frac{-6}{15}\right)=$$ | **20.**  | $$ 4\frac{1}{4}÷\left(-15\right)=$$ |
|  | $$ \frac{3}{10}÷\left(\frac{-6}{15}\right)$$$$= \frac{3}{10}\*\left(\frac{15}{-6}\right)$$$$= \frac{3\*3\*5}{5\*2\*\left(-2\right)\*3}$$$$= \frac{3}{2\*\left(-2\right)}$$$$= \frac{3}{-4}$$ |  | $$ 4\frac{1}{4}÷\left(-15\right)$$$$= \frac{15}{4}\*\frac{1}{\left(-15\right)}$$$$= \frac{15\*1}{4\*\left(-1\right)\*15}$$$$= \frac{1}{4\*\left(-1\right)}$$$$= \frac{1}{-4}$$$$ $$ |
| **21.**  | $$ -1.3÷\left(-2.2\right)=$$ | **22.**  | $$ \left(-16.06\right)÷12.3=$$ |
|  | $$= -1.3÷\left(-2.2\right)$$$$=\frac{-13}{10}÷\frac{\left(-22\right)}{10}$$$$=\frac{-13}{10}\*\frac{10}{\left(-22\right)}$$$$=\frac{-13\*10}{10\*\left(-22\right)}$$$$=\frac{-13}{-22}$$$$=\frac{13}{22}$$ |  | $$ = \left(-16.06\right)÷12.3$$$$=\frac{-1,606}{100}÷\frac{123}{10}$$$$=\frac{-1606}{100}\*\frac{10}{123}$$$$=\frac{-1,606\*10}{10\*10\*123}$$$$=\frac{-1,606}{10\*123}$$$$=\frac{-1,606}{1,230}$$$$=\frac{-803}{615}$$ |