$$\frac{3}{50} \times \frac{2}{2} = \frac{6}{100} = 0.06$$ **Math 7 Chapter 4 Practice Test**

$$50\overline{)3.00}$$ $$\frac{0.06}{3\ 00}$$

| | |
|---|---|
| **1.** What is $\frac{3}{50}$ as a decimal?<br>    **A.** 6.0      **B.** $0.\overline{6}$      **C.** 0.6      **(D)** 0.06 ← SIX HUNDREDTHS | **D** |
| **2.** What is $1\frac{5}{9}$ as a decimal?  $\frac{5}{9} = 5 \div 9$<br>    **A.** 0.15    **(B.)** $1.\overline{5}$    **C.** 1.5    **D.** 15.6    $9\overline{)5.0}$  $\frac{0.55}{45}$ | **B** |
| **3.** What is 0.42 as a fraction in simplest form?<br>    **(A.)** $\frac{21}{50}$    **B.** $\frac{4}{10}$    **C.** $\frac{10}{25}$    **D.** $\frac{2}{5}$    $\frac{42}{100} \div \frac{2}{2} = \frac{21}{50}$ | **A** |
| **4.** Which symbol makes $\frac{6}{11} \;>\; \frac{2}{5}$ a true sentence?<br>    **(A.)** $>$    **B.** $<$    **C.** $=$    **D.** $+$    $\frac{6}{11} \cdot \frac{5}{5} = \frac{30}{55}$<br>  $\frac{6}{11} > \frac{1}{2}$   $\frac{2}{5} < \frac{1}{2}$   $\frac{2}{5} \cdot \frac{11}{11} = \frac{22}{55}$ | **A** |
| **5.** Which of the following has the least value?<br>    **A.** $\frac{13}{15}$    **B.** $\frac{7}{8}$    **C.** $\frac{2}{3}$ $\frac{10}{15}$    **(D.)** $\frac{3}{5}$ $\frac{9}{15}$   $\frac{2}{3} \cdot \frac{5}{5} = \frac{10}{15}$   $\frac{7}{8} \cdot \frac{5}{5} = \frac{35}{40}$<br>    $\frac{3}{5} \cdot \frac{3}{3} = \frac{9}{15}$   $\frac{3}{5} \cdot \frac{8}{8} = \frac{24}{40}$ | **D** |
| **6.** A recipe calls for $\frac{1}{6}$ teaspoon of vanilla extract. If the recipe is doubled, how much vanilla extract is needed?  TIMES 2<br>    **A.** $\frac{1}{16}$ tsp    **(B.)** $\frac{1}{3}$ tsp    **C.** $\frac{1}{6}$ tsp    **D.** 1 tsp    $\frac{1}{6} \cdot \frac{2}{1} = \frac{1 \times 2}{6 \times 1} = \frac{2}{6} = \frac{1}{3}$ | **B** |
| **7.** Jeremy and his friends ate $\frac{7}{8}$ of a pie. If the pie was cut into eight pieces, how much pie is left over?<br>    **(A.)** $\frac{1}{8}$    **B.** $\frac{2}{8}$    **C.** $\frac{1}{4}$    **D.** $\frac{5}{8}$    $\frac{8}{8} - \frac{7}{8} = \frac{8-7}{8} = \frac{1}{8}$<br>  FULL PIE   ATE   LEFT | **A** |
| **8.** A recipe calls for $5\frac{3}{8}$ cups of milk. If the recipe is tripled, how much milk is needed?  TIMES 3  $5 \times 3 = 15$  $15 + 1\frac{1}{8} = 16\frac{1}{8}$ CUPS OF MILK<br>  $5\frac{3}{8} \times 3 \rightarrow (5 \times 3) + \left(\frac{3}{8} \times 3\right)$    $\frac{3}{8} \times \frac{3}{1} = \frac{3 \times 3}{8 \times 1} = \frac{9}{8} = 1\frac{1}{8}$ | |
| **9.** Ayana bought a container of peanuts. She gave $\frac{1}{4}$ of it to one sister, $\frac{1}{3}$ to another sister, and she kept the rest for herself. What fraction did she keep?  $1 - \frac{1}{4} - \frac{1}{3} = $ **A**<br>  $\frac{12}{12}$   $\frac{1}{4} = \frac{3}{12}$   $\frac{12}{12} - \frac{3}{12} - \frac{4}{12}$   $\frac{1}{3} = \frac{4}{12}$   $\frac{12-3-4}{12} = \frac{5}{12}$ | $\frac{5}{12}$ OF THE CONTAINER |
| **10.** A restaurant had 3 pies, each cut into eighths. By noon, $\frac{1}{2}$ of all the pieces were sold. How many pieces of pie were sold by noon?<br>  $3 \times 8 = 24$ PIECES   $\frac{24}{2} = 12$ PIECES   $4 + 4 + 4 = 12$ | **12** PIECES SOLD BY NOON |

40 MI PER HR    ZERO MILES

**11.** The Davis family traveled 20 miles in $\frac{1}{2}$ hour. If it is currently 2:00 P.M. and the family's destination is 240 miles away, at what time will they arrive? Explain how you solved the problem.

$240 \div 40 = 6$

$2:00 + 6$ HRS  → **8:00 PM**

1 HR
20 20 | 20 20 | 20 20 | 20 20 | 20 20 | 20 20
2:00  3:00  4:00  5:00  6:00  7:00  8:00

**12.** $\frac{4}{7} - \frac{2}{7} =$   $\frac{4-2}{7} = \frac{2}{7}$

A. $\frac{2}{14}$    B. $\frac{1}{7}$    C. $\frac{2}{7}$    D. 0

**C**

**13.** $\frac{4}{5} + \frac{1}{5} =$   $\frac{4+1}{5} = \frac{5}{5} = 1$

**1**

**14.** $\frac{1}{2} + \frac{1}{4} + \frac{1}{6} =$

$\frac{6}{12} + \frac{3}{12} + \frac{2}{12} = \frac{6+3+2}{12} = \frac{11}{12}$

**$\frac{11}{12}$**

**15.** $4\frac{1}{4} =$   $4\frac{1}{4} + 5\frac{2}{4} = 9\frac{3}{4}$

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

$4\frac{1}{4} = \frac{17}{4}$
$5\frac{2}{4} = \frac{22}{4}$  > $\frac{39}{4} = 9\frac{3}{4}$

**$9\frac{3}{4}$**

**16.** $7\frac{5}{6} = 7\frac{10}{12}$ (Hint for solving. Find the sum.)

$+ 2\frac{1}{4} = 2\frac{3}{12}$

$\frac{5}{6} \cdot \frac{2}{2} = \frac{10}{12}$
$\frac{1}{4} \cdot \frac{3}{3} = \frac{3}{12}$

↱ COMMON DENOMINATOR

$7\frac{10}{12} + 2\frac{3}{12} =$
$7 + 2 = 9$  → $9 + 1\frac{1}{12} =$
$\frac{10+3}{12} = \frac{13}{12} = 1\frac{1}{12}$

**$10\frac{1}{12}$**

**17.** $5 - 3\frac{1}{3} =$

$\frac{15}{3} - \frac{10}{3} = \frac{5}{3} = 1\frac{2}{3}$

$5 - 3\frac{1}{3}$
$5 - 3 = 2$    $2 - \frac{1}{3} = 1\frac{2}{3}$

**$1\frac{2}{3}$**

**18.** $\frac{1}{2} \times \frac{1}{2} =$   $\frac{1 \times 1}{2 \times 2} = \frac{1}{4}$

**$\frac{1}{4}$**

**19.** $-\frac{2}{3} \div \frac{1}{2} =$

RECIPROCAL = $\frac{2}{1}$

$-\frac{2}{3} \cdot \frac{2}{1} = \frac{-2 \cdot 2}{3 \cdot 1} = \frac{-4}{3} = -1\frac{1}{3}$

**$-1\frac{1}{3}$**

**20.** Stephanie is organizing her Movie collection. If each movie case is $\frac{3}{4}$ inches wide how many movies can she fit on a shelf $5\frac{1}{4}$ feet wide?

$5\frac{1}{4}$ ft = **63** in        $63 \div \frac{3}{4}$

$5 \times 12 = 60$ in

$\frac{63}{1} \cdot \frac{4}{3} = \frac{63 \cdot 4}{1 \cdot 3} = \frac{84}{1} = 84$   (63 → 21)

$\frac{1}{4} \times 12 = 3$ in

SHE CAN FIT **84** MOVIES

$1 + 5 = 6$        $6 + 3 = 9$
$1 + 2 = 3$
$1 + 7 = 8$