Ch 3 Test

D **1. Add the fractions.**

$\frac{2}{5} + \frac{1}{6}$

A. $\frac{1}{15}$

B. $\frac{3}{11}$

C. $\frac{5}{12}$

(D.) $\frac{17}{30}$

Handwritten work:
$$\frac{2}{5} \times \frac{6}{6} = \frac{12}{30}$$
$$\frac{1}{6} \times \frac{5}{5} = \frac{5}{30}$$
$$\frac{17}{30}$$

$-7 \frac{27}{34}$

D **2. Use benchmarks to estimate the difference between $\frac{5}{6}$ and $\frac{3}{5}$.**

A. 0

B. $\frac{1}{2}$

C. 1

(D.) $1\frac{1}{2}$

-1

$1 - \frac{1}{2}$

Handwritten work:
$$\frac{5}{6} = 1$$
$$\frac{3}{5} = \frac{1}{2}$$
$$1\frac{1}{2}$$

_D_   3. Which is $28 \div 12$ expressed as a mixed number?

A. $1\frac{2}{3}$

B. $1\frac{4}{12}$

C. $2\frac{1}{3}$

D. $2\frac{4}{12}$

handwritten work: -1

$\frac{28}{12} = 2\frac{4}{12} = 2\frac{1}{3}$

$\frac{17}{25} = \frac{68}{100} = .68$

_−2_ 4. Express $\frac{17}{25}$ as a decimal. 0.17 $\frac{17}{25} = 0.17$

_−1_ 5. Express $22 \div 5$ as a decimal. 4.2 $\frac{22}{5} = 4\frac{2}{5} = 4.2$

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

4.4

_C_   6. Add $2\frac{1}{5}$ and $7\frac{2}{7}$. Which is the sum in simplest form?

A. $9\frac{1}{4}$

B. $10\frac{27}{35}$

C. $9\frac{17}{35}$

D. $10\frac{27}{35}$

handwritten work:

$\frac{1}{5} \times \frac{7}{7} = \frac{7}{35}$

$\frac{2}{7} \times \frac{5}{5} = \frac{10}{35}$

$2 + 7 = 9$

$9 + \frac{10}{35} + \frac{7}{35} = 9\frac{17}{35}$

D

7. Subtract $4\frac{2}{3}$ from $9\frac{7}{8}$. Which is the difference in simplest form?

A. $2\frac{17}{24}$

B. $4\frac{5}{24}$

C. $5\frac{1}{5}$

(D.) $5\frac{5}{24}$

$9 - 4 = 5$

$\frac{7}{8} \times \frac{3}{3} = \frac{21}{24}$

$\frac{2}{3} \times \frac{8}{8} = \frac{16}{24}$

$\frac{21}{24} - \frac{16}{24} = \frac{5}{24}$

$5 + \frac{5}{24} = 5\frac{5}{24}$

B

8. Use benchmarks to estimate the sum of $4\frac{7}{12}$ and $6\frac{1}{4}$.

A. 10

(B.) $10\frac{1}{2}$

C. 11

D. $11\frac{1}{2}$

$\frac{7}{12} = \frac{1}{2}$

$\frac{1}{4} = 0$

$6 + 4 = 10$

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

3

A   9. Estimate the difference between $27\frac{2}{3}$ and $19\frac{3}{4}$.

(A.) $7\frac{1}{2}$

B. 8

C. $8\frac{1}{2}$

D. 9

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

$\frac{3}{4} = 1$

$27 - 19 = 8$

$8 - 1 = 7$

$7 + \frac{1}{2} = 7\frac{1}{2}$

B   10. A bean plant was $\frac{2}{3}$ meter tall last week. It grew $\frac{1}{5}$ meter taller this week. How tall is it now?

A. $\frac{3}{8}$ meter

(B.) $\frac{13}{15}$ meter

C. $\frac{7}{15}$ meter

D. $\frac{1}{5}$ meter

$\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$

$\frac{1}{5} \times \frac{3}{3} = \frac{3}{15}$

$= \frac{13}{15}$

11. Mrs. Fisher mixed $\frac{7}{8}$ kilogram of flour with $\frac{1}{3}$ kilogram of water to make some dough. What is the (approximate) mass of the dough?

$\frac{7}{8} \times \frac{3}{3} = \frac{21}{24} \approx 1$ $\frac{1}{3} \times \frac{8}{8} = \frac{8}{24} \approx \frac{1}{2}$ $= 1 + \frac{1}{2} =$

the aproximate mass
of dough is $1\frac{1}{2}$, $1\frac{1}{2}$

B

12. A team of construction workers mixed $10\frac{1}{2}$ tons of cement. They used $7\frac{5}{6}$ tons of cement to pave some pathways. How much cement is left?

A. $2\frac{1}{3}$ tons

B. $2\frac{2}{3}$ tons

C. $3\frac{1}{3}$ tons

D. $3\frac{2}{3}$ tons

$10\frac{3}{6} - 7\frac{5}{6} = 2\frac{4}{6} = 2\frac{2}{3}$

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

C

13. Use benchmarks to estimate the sum of $\frac{3}{5}$ and $\frac{5}{6}$

A. $\frac{1}{2}$

B. 1

C. $1\frac{1}{2}$

D. 2

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

$\frac{5}{6} = 1$ $1 + \frac{1}{2} = 1\frac{1}{2}$

C 14. Use benchmarks to estimate the difference of $\frac{5}{8}$ and $\frac{3}{5}$

−1

    A. 0

    B. $\frac{1}{2}$

    C. 1

    D. $1\frac{1}{2}$

$\frac{5}{8} = \frac{1}{2}$

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

$\overline{}$

1

B 15. What is 0.35 as a fraction?

−1

    A. $\frac{35}{10}$

    B. $\frac{35}{50}$

    C. $\frac{7}{20}$

    D. $\frac{14}{50}$

$0.35 = \frac{35}{50}$

$\frac{35 \div 5}{100 \div 5} = \frac{7}{20}$

_A_

16. **Express 37 ÷ 10 as a mixed number and a decimal.**

(A.) $3\frac{7}{10}$ and 3.7

B. $3\frac{17}{100}$ and 3.07

C. $37\frac{1}{10}$ and 37.1

D. $\frac{10}{37}$ and 0.37

$$\frac{37}{10} = 3\frac{7}{10}$$

$$3\frac{7}{10} = 3.7$$

_B_

17. **Randy read a story for English over three days. He spent $1\frac{1}{3}$ hours, $2\frac{1}{4}$ hours, and $1\frac{4}{5}$ hours reading on these days. What is the best estimate of the time it took him to read the story?**

A. $4\frac{1}{2}$ hours

(B.) $5\frac{1}{2}$ hours

C. $6\frac{1}{2}$ hours

D. 7 hours

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

$$1\frac{4}{5} = 2$$

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