

**Additional
Practice 7-6****Estimate Sums and
Differences of Mixed
Numbers****Another Look!**

Kyra has $4\frac{1}{8}$ yards of red ribbon and $7\frac{2}{3}$ yards of blue ribbon. About how many yards of ribbon does she have?

Round both numbers to the nearest whole number. Then add or subtract.

Estimate $4\frac{1}{8} + 7\frac{2}{3}$.

$4\frac{1}{8}$ rounds to 4.

$7\frac{2}{3}$ rounds to 8.

$4 + 8 = 12$

So, $4\frac{1}{8} + 7\frac{2}{3}$ is about 12.

Kyra has about 12 yards of ribbon.

If the fractional part of a mixed number is greater than or equal to $\frac{1}{2}$, round to the next greater whole number. If it is less than $\frac{1}{2}$, use only the whole number.



In **1–8**, round to the nearest whole number.

1. $8\frac{5}{6}$

2. $13\frac{8}{9}$

3. $43\frac{1}{3}$

4. $6\frac{6}{7}$

5. $7\frac{40}{81}$

6. $29\frac{4}{5}$

7. $88\frac{2}{4}$

8. $20\frac{3}{10}$

In **9–17**, estimate each sum or difference.

9. $7\frac{1}{9} + 8\frac{2}{5}$

10. $14\frac{5}{8} - 3\frac{7}{10}$

11. $2\frac{1}{4} + 5\frac{1}{2} + 10\frac{3}{4}$

12. $11\frac{3}{5} - 4\frac{1}{12}$

13. $9 + 3\frac{11}{14} + 5\frac{1}{9}$

14. $15\frac{6}{7} - 12\frac{2}{10}$

15. $3\frac{2}{5} + 6\frac{5}{7}$

16. $20\frac{1}{3} - 9\frac{1}{2}$

17. $25\frac{7}{8} + 8\frac{7}{12}$



Use the table for 18–20.

- 18. Critique Reasoning** Robert says his better long jump was about 1 foot farther than May's better long jump. Is he correct? Explain.

Participant	Event	Distance
Robert	Long Jump	1. $6\frac{1}{12}$ ft 2. $5\frac{2}{3}$ ft
	Softball Throw	$62\frac{1}{5}$ ft
May	Long Jump	1. $4\frac{2}{3}$ ft 2. $4\frac{3}{4}$ ft
	Softball Throw	$71\frac{7}{8}$ ft

- 19.** If the school record for the softball throw is 78 feet, about how much farther must Robert throw the ball to match the record?
- 20.** About how much farther is May's softball throw than Robert's softball throw?

- 21. Higher Order Thinking** Use the problem $\frac{3}{5} + \frac{3}{4}$. First, round each fraction and estimate the sum. Then, add the two fractions using a common denominator and round the result. Which is closer to the actual sum?

- 22.** To make one batch of granola, Linda mixes 1 pound of oat flakes, 6 ounces of walnuts, 5 ounces of raisins, and 4 ounces of sunflower seeds. How many pounds of granola does one batch make?

Remember:
1 pound = 16 ounces.



Assessment Practice

- 23.** Clay's hair is $10\frac{2}{7}$ inches long. The barber trims off $\frac{1}{4}$ inch. About how long is his hair now?
- (A) 9 in.
(B) 10 in.
(C) 11 in.
(D) 12 in.
- 24.** Tom and Sami have two painting jobs but can only stop at the store once. The first job needs $1\frac{4}{5}$ gallons of paint. The second needs $12\frac{1}{3}$ gallons. How many gallon cans of paint should they buy?
- (A) 11 cans
(B) 13 cans
(C) 14 cans
(D) 15 cans