Exercise 5 (answers on page 40)

Solve the following fraction word problems. Cancel and simplify your answers.

1. A stack of boards is 21 inches high. Each board is $1\frac{3}{4}$ inches thick. How many boards are there?

2. A satellite makes 4 revolutions of the earth in one day. How many revolutions would it make in $6\frac{1}{2}$ days?

3. A bolt has $16\frac{1}{2}$ turns per inch. How many turns would be in $2\frac{1}{2}$ inches of threads?

4. If a bookshelf is $28\frac{1}{8}$ inches long, how many $1\frac{7}{8}$ inch thick books will it hold?

5. Deborah needs to make 16 costumes for the school play. Each costume requires $2\frac{1}{4}$ yards of material. How many yards of material will she need?

- 6. The Coffee Pub has cans of coffee that weigh $3\frac{1}{4}$ pounds each. The Pub has $8\frac{1}{2}$ cans of coffee left. What is the total weight of $8\frac{1}{2}$ cans?
- 7. Belinda baked 9 pies that weigh $20\frac{1}{4}$ pounds total. How much does each pie weigh?
- 8. A piece of paper is $\frac{4}{1000}$ inches thick. How many sheets of paper will it take to make a stack 1 inch high?
- 9. Tanya has read $\frac{3}{4}$ of a book, which is 390 pages. How many pages are in the entire book?

10. DJ Gabe is going to serve $\frac{1}{3}$ of a whole pizza to each guest at his party. If he expects 24 guests, how many pizza's will he need?

Exercise 5 (answers on page 40)

Solve the following fraction word problems. Cancel and simplify your answers.

1. A stack of boards is 21 inches high. Each board is 13 inches thick. How many boards are there?

 $21 \stackrel{\circ}{=} 1\frac{3}{4}$ How many $1\frac{3}{4}$ in boards are in the $21 \stackrel{\circ}{=} \frac{7}{4}$ $\frac{21}{1} \stackrel{\circ}{=} \frac{7}{4}$ = $1\frac{2}{1} = 12$ boards

2. A satellite makes 4 revolutions of the earth in one day. How many revolutions would it make in $6\frac{1}{2}$ days?

 $4 \cdot 6\frac{1}{2}$ $6 \cdot$

3. A bolt has $16\frac{1}{2}$ turns per inch. How many turns would be in $2\frac{1}{2}$ inches of threads?

threads?

162 = 22

XZ\(\frac{1}{2}\) (16\(\frac{1}{2}\) turns in Z\(\frac{1}{2}\) inches) XZ\(\frac{1}{2}\)

 $\frac{33}{2}$, $\frac{5}{2} = \frac{165}{4} = \frac{41}{4}$ turns

4. If a bookshelf is $28\frac{1}{8}$ inches long, how many $1\frac{7}{8}$ inch thick books will it

hold? $28\frac{17}{8} = \frac{15}{8}$ How many $1\frac{7}{8}$ in books fit on $28\frac{1}{8}$ in bookshelf $15\frac{225}{8} = \frac{15}{8}$ $15\frac{225}{8} = \frac{15}{8}$ $15\frac{225}{8} = \frac{15}{15} =$

5. Deborah needs to make 16 costumes for the school play. Each costume requires 2 4 yards of material. How many yards of material will she

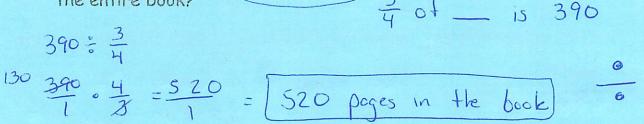
need? $2\frac{1}{4}$ for 1 costume, $2\frac{1}{4}$ for 2 ...

4 16 · 2 + 36 yords

0

0

6. The Coffee Pub has cans of coffee that weigh $3\frac{1}{4}$ pounds each. The Pub
has $8\frac{1}{2}$ cans of coffee left. What is the total weight of $8\frac{1}{2}$
cans? 34 pounds for 1 con, another 34 for Z
$\frac{13}{4} \cdot \frac{17}{2} = \frac{221}{8} = 27\frac{5}{8} \text{ pounds}$
7. Belinda baked 9 pies that weigh $20\frac{1}{4}$ pounds/total. How much does each
pie weigh? How many 9 are in 204
204:9
9 81 · 4 = 9 = 24 pounds
8. A piece of paper is $\frac{4}{1000}$ inches thick. How many sheets of paper will it
take to make a stack 1 inch high? How many 4 1000 fit in 1 inch
1 0 1000 = 250 = 250 sheets of poper 0
9. Tanya has read $\frac{3}{4}$ of a book, which is 390 pages. How many pages are in
the entire book? $\frac{3}{4}$ of _ is 390
700 . 3



10. DJ Gabe is going to serve 1/3 of a whole pizza to each guest at his party. If he expects 24 guests, how many pizza's will he need?

