



Week 16 Homework

Another Look!

due Monday 12/9/19



When dividing numbers that end in zero, use basic division facts and patterns to help divide mentally.

Find $210 \div 7$.

What is the basic fact?

$21 \div 7 = 3$

$21 \text{ tens} \div 7 = 3 \text{ tens or } 30$

$210 \div 7 = 30$

Find $4,200 \div 6$.

What is the basic fact?

$42 \div 6 = 7$

$42 \text{ hundreds} \div 6 = 7 \text{ hundreds or } 700$

$4,200 \div 6 = 700$

Homework & Practice 5-1

Mental Math: Find Quotients

For 1–20, use basic facts, patterns, or mental math to divide.

1. $25 \div 5 = 5$

$250 \div 5 = 50$

$2,500 \div 5 = 500$

2. $14 \div 2 = 7$

$140 \div 2 = 70$

$1,400 \div 2 = 700$

3. $30 \div 5 = 6$

$300 \div 5 = 60$

$3,000 \div 5 = 600$

4. $16 \div 4 = 4$

$160 \div 4 = 40$

$1,600 \div 4 = 400$

5. $120 \div 6 = 20$

6. $720 \div 9 = 80$

7. $200 \div 4 = 50$

8. $2,800 \div 7 = 400$

9. $5,000 \div 5 = 1,000$

10. $240 \div 8 = 30$

11. $3,600 \div 4 = 900$

12. $1,600 \div 2 = 800$

13. $4,200 \div 7 = 600$

14. $640 \div 8 = 80$

15. $2,000 \div 5 = 400$

16. $320 \div 8 = 40$

17. $810 \div 9 = 90$

18. $270 \div 3 = 90$

19. $1,200 \div 2 = 600$

20. $300 \div 6 = 50$

For 21–23, use the graph at the right.

21. Barry charged \$4 for each copy of *Return of the Dinosaurs*. How many copies did Barry sell?

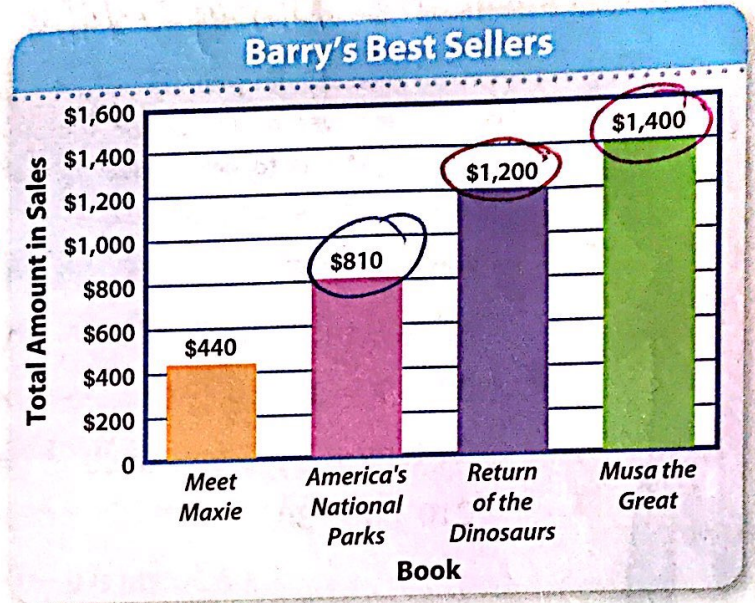
$$\$1,200 \div \$4 = 300 \text{ copies}$$

22. Barry charged \$9 for each copy of *America's National Parks*. How many copies did Barry sell?

$$\$810 \div \$9 = 90 \text{ copies}$$

23. Barry charged \$7 for each copy of *Musa the Great*. How many copies did Barry sell?

$$\$1,400 \div \$7 = 200 \text{ copies}$$



24. © MP.3 Construct Arguments Explain why the following quotient is incorrect: $1,000 \div 5 = 2,000$.

Sample
 $1,000 \div 5$ is 200, not 2,000.
 The basic fact is $10 \div 5$,
 and 10 hundreds $\div 5$ ones is
 200 ones.

25. Higher Order Thinking The band boosters collected \$2,400 from the sale of hamburgers and hot dogs. The amounts earned from hamburgers and hot dogs were equal. A hamburger sold for \$3, and a hot dog sold for \$2. How many of each were sold?

$$\begin{aligned} \$2,400 \div 2 &= \$1,200 \\ \$1,200 \div \$3 &= 400 \text{ hamburgers} \\ \$1,200 \div \$2 &= 600 \text{ hot dogs} \end{aligned}$$

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26. Jessica has 120 stamps in a collection. She bought 60 more. Jessica wants to place the stamps equally on 6 pages of a book. How many stamps will be on each page of the book?

- (A) 20 stamps
- (B) 25 stamps
- (C) 30 stamps
- (D) 40 stamps

$$\begin{aligned} (120 + 60) \div 6 &= \\ 180 \div 6 &= 30 \end{aligned}$$

27. There are 7 days in 1 week. Some months consist of 30 days. How many weeks are there in 280 days?

- (A) 37 weeks
- (B) 40 weeks
- (C) 70 weeks
- (D) 73 weeks

$$280 \div 7 = 40 \text{ weeks}$$

Homework & Practice 5-2

Mental Math: Estimate Quotients

Another Look!

Estimate $460 \div 9$.

Here are two ways to estimate quotients.



One Way

Use compatible numbers.

What number close to 460 can be easily divided by 9?

Try 450.

$$450 \div 9 = 50$$

$460 \div 9$ is about 50.

Another Way

Use multiplication.

Nine times what number is about 460?

$$9 \times 5 = 45, \text{ so } 9 \times 50 = 450.$$

$460 \div 9$ is about 50.

For 1–20, estimate each quotient. Show your work.

1. $165 \div 4$

\downarrow
 $160 \div 4 = 40$
 OR $164 \div 4 = 41$

2. $35 \div 4$

\downarrow
 $32 \div 4 = 8$
 OR $36 \div 4 = 9$

3. $715 \div 9$

\downarrow
 $720 \div 9 = 80$

4. $490 \div 8$

\downarrow
 $480 \div 8 = 60$
 OR $488 \div 8 = 61$

5. $512 \div 5$

\downarrow
 $500 \div 5 = 100$
 OR $510 \div 5 = 102$

6. $652 \div 8$

\downarrow
 $640 \div 8 = 80$
 OR $648 \div 8 = 81$

7. $790 \div 9$

\downarrow
 $810 \div 9 = 90$

8. $200 \div 7$

\downarrow
 $210 \div 7 = 30$

9. $311 \div 6$

\downarrow
 $300 \div 6 = 50$
 OR $306 \div 6 = 51$

10. $162 \div 2$

\downarrow
 $160 \div 2 = 80$
 OR $162 \div 2 = 81$

11. $418 \div 6$

\downarrow
 $420 \div 6 = 70$

12. $554 \div 7$

\downarrow
 $560 \div 7 = 80$

13. $92 \div 3$

\downarrow
 $90 \div 3 = 30$
 OR $93 \div 3 = 31$

14. $351 \div 7$

\downarrow
 $350 \div 7 = 50$

15. $497 \div 5$

\downarrow
 $500 \div 5 = 100$
 OR $495 \div 5 = 99$

16. $61 \div 2$

\downarrow
 $60 \div 2 = 30$

17. $202 \div 2$

\downarrow
 $200 \div 2 = 100$
 OR $202 \div 2 = 101$

18. $153 \div 3$

\downarrow
 $150 \div 3 = 50$
 OR $153 \div 3 = 51$

19. $98 \div 9$

\downarrow
 $99 \div 9 = 11$

20. $174 \div 9$

\downarrow
 $180 \div 9 = 20$

For 21–23, use Franny's To-Do List.

21. Franny has 5 pages left in the album. About how many pictures can she place on each remaining page?

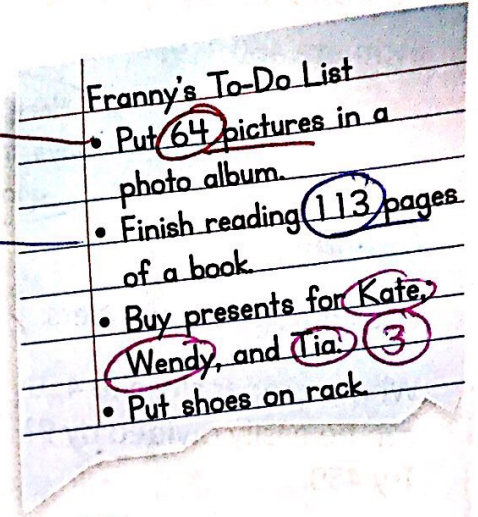
$$64 \div 5 \approx 65 \div 5 = 13 \text{ OR } 60 \div 5 = 12$$

22. Franny plans to spend 4 hours reading. About how many pages would she need to read each hour to finish the book?

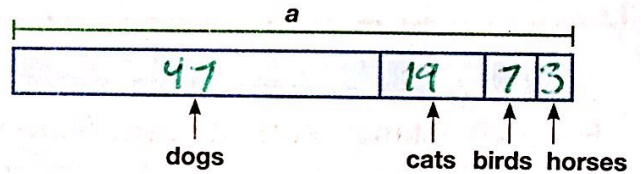
$$113 \div 4 \approx 112 \div 4 = 28 \text{ OR } 120 \div 4 = 30$$

23. Franny wants to spend an equal amount of money on the presents for her friends. If she has \$62, about how much money can she spend on each present?

$$62 \div 3 \approx 63 \div 3 = 21 \text{ OR } 60 \div 3 = 20$$



24. **MP.4 Model with Math** The veterinarian has seen 47 dogs, 19 cats, 7 exotic birds, and 3 horses this week. Complete the bar diagram and find the total number of animals seen by the veterinarian this week.



$$47 + 19 + 7 + 3 = 47 + 19 + 10 = 47 + 29 = 76 \text{ animals}$$

25. Wayne has 303 marbles. If he gives away 123 of the marbles equally to 3 friends, about how many marbles will Wayne give each friend? How many marbles does Wayne have left?

$$123 \div 3 = 41$$

OR $120 \div 3 = 40$ marbles each

$$\begin{array}{r} 303 \\ -123 \\ \hline 180 \end{array}$$

180 marbles left

26. **Higher Order Thinking** Tessa wants to separate 187 ears of corn into bags of 6 ears each. She has 35 bags. Estimate to find whether Tessa has enough bags. Explain.

$$187 \div 6$$

OR $6 \times 35 = 180 + 30 = 210$

OR $180 \div 6 = 30$

OR $186 \div 6 = 31$

(more corn than she has)

fewer bags than she has

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27. Deon set a goal to ride his bicycle 310 miles in a month. He has biked 145 miles so far. If there are 4 days left in the month, about how many miles should Deon ride each day to reach his goal? Explain.

Sample

$$\begin{array}{r} 310 \\ -145 \\ \hline 165 \end{array}$$

$$165 \div 4$$

OR $160 \div 4 = 40$

OR $166 \div 4 = 41$

Show Ms. Nib complete sentence!