

Grade 4

American Math HW for Week of 23Sept - 27Sept

Instructions:

1. HW should be uploaded through Archie.
2. Due date: Sunday, 09/29 midnight
3. Look at the top right corner of the title pages to see HW is assigned for which day of the week to pace yourself.
4. If you move ahead in the HW, it is possible that the topic is not covered in class yet. So, please follow the suggested pacing.
5. Show all your work to receive full credit. Only final answer to a problem will not be considered as completed work.
6. This HW is a practice and review together for the mid-Ch2 quiz on Monday, 09/30.

Name _____

Multiply 3-Digit and 4-Digit Numbers with Regrouping

Estimate. Then find the product.

1. Estimate: 4,000

$$\begin{array}{r} 1\ 2\ 2 \\ 1,467 \\ \times \quad 4 \\ \hline 5,868 \end{array}$$

2. Estimate: _____

$$\begin{array}{r} 5,339 \\ \times \quad 6 \\ \hline \end{array}$$

3. Estimate: _____

$$\begin{array}{r} \$879 \\ \times \quad 8 \\ \hline \end{array}$$

4. Estimate: _____

$$\begin{array}{r} 3,182 \\ \times \quad 5 \\ \hline \end{array}$$

5. Estimate: _____

$$\begin{array}{r} 4,616 \\ \times \quad 3 \\ \hline \end{array}$$

6. Estimate: _____

$$\begin{array}{r} \$2,854 \\ \times \quad 9 \\ \hline \end{array}$$

7. Estimate: _____

$$\begin{array}{r} 7,500 \\ \times \quad 2 \\ \hline \end{array}$$

8. Estimate: _____

$$\begin{array}{r} 948 \\ \times \quad 7 \\ \hline \end{array}$$

Problem Solving



9. Lafayette County has a population of 7,022 people. Columbia County's population is 8 times as great as Lafayette County's population. What is the population of Columbia County?
- _____

10. A seafood company sold 9,125 pounds of fish last month. If 6 seafood companies sold the same amount of fish, how much fish did the 6 companies sell last month in all?
- _____

- 12.** By recycling 1 ton of paper, 6,953 gallons of water are saved. How many gallons of water are saved by recycling 4 tons of paper?
-

- 13.** Esteban counted the number of steps it took him to walk to school. He counted 1,138 steps. How many steps does he take walking to and from school each day?
-

Name _____

Multiply with Regrouping

Estimate. Then find the product.

1. Estimate: 2,700

$$\begin{array}{r} 2 \\ 1 \\ 87 \\ \times 32 \\ \hline 174 \\ + 2,610 \\ \hline 2,784 \end{array}$$

Think: 87 is close to 90 and 32 is close to 30.

$$90 \times 30 = 2,700$$

2. Estimate: _____

$$\begin{array}{r} 673 \\ \times 28 \\ \hline \end{array}$$

3. Estimate: _____

$$\begin{array}{r} 48 \\ \times 38 \\ \hline \end{array}$$


4. Estimate: _____

$$\begin{array}{r} 359 \\ \times 52 \\ \hline \end{array}$$

Problem Solving

5. Baseballs come in cartons of 84 baseballs. A team orders 18 cartons of baseballs. How many baseballs does the team order?

6. There are 16 tables in the school lunch room. Each table can seat 22 students. How many students can be seated at lunch at one time?

7.  *Math* Write about which method you prefer to use to multiply two 2-digit numbers—regrouping, partial products, or breaking apart a model. Explain why.

Lesson Check

8. The art teacher has 48 boxes of crayons. There are 64 crayons in each box. How many crayons does the teacher have?
9. A basketball team scored an average of 52 points in each of 15 games. Based on the average, how many points did the team score in all?

Name _____

Solve Multi-Step Problems Using Equations

Problem Solving

1. Rebecca bought a flat of 144 pansies. She planted 3 rows of 16 pansies each. She planted 4 rows of 14 pansies each. How many pansies does she have left to plant?

16	16	16	14	14	14	14	p
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144

$3 \times 16 = \underline{\hspace{2cm}}$

$4 \times 14 = \underline{\hspace{2cm}}$

$p = 144 - \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$

$p = \underline{\hspace{2cm}}$

2. Kiara packed 18 DVDs in each of 4 boxes. She packed 15 DVDs in each of 5 boxes. She has 8 DVDs left over. How many DVDs does Kiara have?
3. Monty buys 2 adult dinner tickets for \$22 each, 2 senior tickets for \$18 each and 3 child tickets for \$12 each. How much change will he get from \$120?

4. Quaddus has 4 shelves with 22 dinosaur models on each shelf. He has 3 shelves with 20 dragon models on each shelf. How many more dinosaur models than dragon models does Quaddus have?
5. Alexis needs 280 screws to finish her deck. She bought 3 boxes of screws with 40 screws in a box. She had 168 screws. How many screws will she have left over when she finishes the deck?

Fill in the bubble com to select the answer. However, make sure to show all your work to receive full credit

6. Erika baked 7 trays of 12 muffins each. Simon baked 5 trays of 18 muffins each. They agreed to make 200 muffins for the school bake sale. How many more muffins do they need to make?
- (A) 26
(B) 36
(C) 38
(D) 52
7. Victoria is buying stickers. She bought 3 packages of stars with 24 in each package. She bought 2 packages of rainbows with 16 in each package. She bought 4 packages of hearts with 10 in each package. She used 82 of the stickers to make cards. How many stickers does Victoria have left?
- (A) 62
(B) 72
(C) 96
(D) 114
8. Ghandi bagged his potatoes in 18 ten-pound bags, 16 five-pound bags, and 4 twenty-five pound bags. He has 2 pounds of potatoes left over. How many pounds of potatoes does Ghandi have?
- (A) 262 pounds
(B) 352 pounds
(C) 358 pounds
(D) 362 pounds
9. Mateo bought 6 hats for \$14 each and 3 belts for \$33 each. How much change did he get from \$200?
- (A) \$7
(B) \$17
(C) \$27
(D) \$58

Name _____

Multiply by 2-Digit Numbers

Solve each problem and show all work to receive full credit.

1. Oleg counted an average of 18 birds at his bird feeder each day for 20 days. Vera counted an average of 21 birds at her bird feeder each day for 16 days. How many more birds did Oleg count at his feeder than Vera counted at hers?

Birds counted by Oleg: $18 \times 20 = 360$

Birds counted by Vera: $21 \times 16 = 336$

Draw a bar model to compare.

Subtract. $360 - 336 = 24$

360 birds counted by Oleg

336 birds counted by Vera

?

So, Oleg counted 24 more birds.

2. The 24 students in Ms. Lee's class each collected an average of 118 cans for recycling. The 21 students in Mr. Galvez's class each collected an average of 125 cans for recycling. How many more cans were collected by Ms. Lee's class than Mr. Galvez's class?
- _____
3. At East School, each of the 45 classrooms has an average of 22 students. At West School, each of the 42 classrooms has an average of 23 students. How many more students are at East School than at West School?
- _____

5. Ace Manufacturing ordered 17 boxes with 105 ball bearings each. They also ordered 15 boxes with 90 springs each. How many more ball bearings than springs did they order?

6. Elton hiked 16 miles each day on a 12-day hiking trip. Lola hiked 14 miles each day on her 16-day hiking trip. In all, how many more miles did Lola hike than Elton hiked?

Name _____

Multiplication **Review** - Multiply multi-digit numbers

1. Explain how to find 40×50 .

2. Mrs. Traynor's class is taking a field trip to the zoo. The trip will cost \$26 for each student. There are 22 students in her class. **How much total money will it cost for the trip?**

3. For Problems 3a–3e, select Yes or No to show if the answer is correct.

3a. $35 \times 10 = 350$ ☐ Yes ☐ No

3b. $19 \times 20 = 380$ ☐ Yes ☐ No

3c. $12 \times 100 = 120$ ☐ Yes ☐ No

3d. $70 \times 100 = 7,000$ ☐ Yes ☐ No

3e. $28 \times 30 = 8,400$ ☐ Yes ☐ No

4. There are 23 boxes of pencils in Mr. Shaw's supply cabinet. Each box contains 100 pencils. How many pencils are in the supply cabinet?

_____ pencils

5. Which would provide a reasonable estimate for each product? Write the estimate beside the product. An estimate may be used more than once.

50×20

25×40

30×30

23×38

46×18

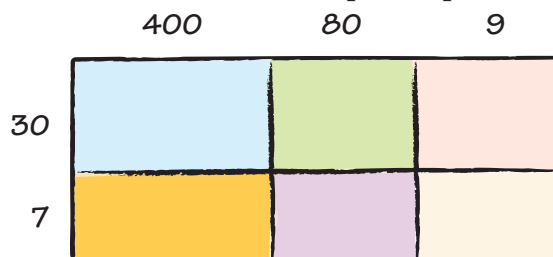
31×32

39×21

6. There are 26 baseball teams in the league. Each team has 18 players.

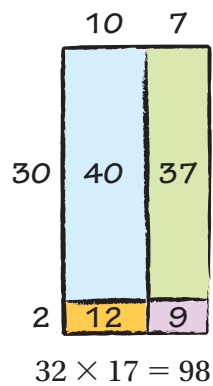
Find total _____ number of players in the league.

7. The model shows 489×37 . Write the partial products.



Name _____

8. Jess made this model to find the product of 32×17 . Her model is incorrect.



Part A

What did Jess do wrong?

Part B

Redraw the model so that it is correct.



Part C

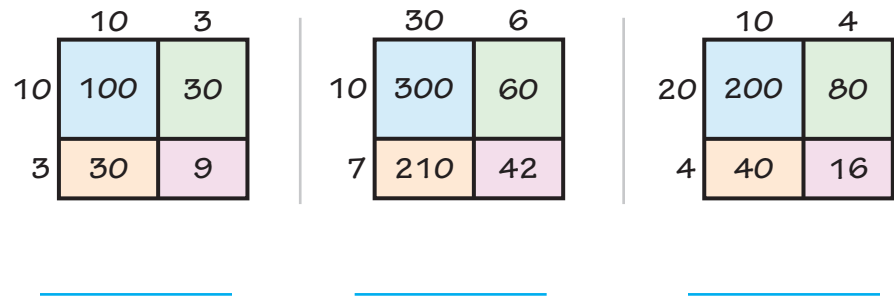
What is the actual product of 32×17 ?

9. Tatum wants to use partial products to find 15×32 .

Show his work.

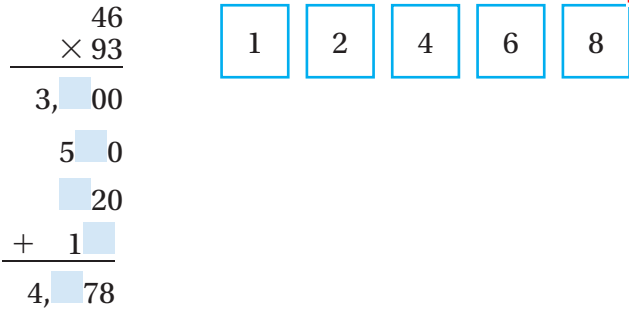
10. Which product is shown by the model? Write the letter of the product on the line below the model.

- (A)
 17×36
- (B)
 24×14
- (C)
 13×13



11. Mrs. Jones places 3 orders for school T-shirts. Each order has 16 boxes of shirts, and each box holds 17 shirts. How many T-shirts does Mrs. Jones order?

12. Write the unknown digits. Use each digit exactly once. Hint: Use multiplication using partial products method



13. Mohammed has logged 216 minutes in the school-wide reading competition. Francisco has 17 times as many minutes as Mohammed does. How many minutes does Francisco have?

 minutes

14. Multiply.

$436 \times 28 =$

Name _____

15. A farmer planted 42 rows of tomatoes with 13 plants in each row. He planted 23 rows of corn with 21 plants in each row. How many more tomato plants did he plant than corn plants?

17. Terrell runs 15 sprints. Each sprint is 165 meters. How many meters does Terrell run? Show your work.

18. There are 3 new seats in each row in a school auditorium. There are 15 rows in the auditorium. Each new seat cost \$74. What is the cost for the new seats? **Show work**

19. Ray and Ella helped move their school library to a new building. Ray packed 27 boxes with 25 books in each box. Ella packed 23 boxes with 30 books in each box. How many more books did Ella pack? Show your work.

20. Julius and Walt are finding the product of 25 and 16.

Part A

Julius’ answer is incorrect. What did Julius do wrong?

Part B

What did Walt do wrong?

Part C

What is the correct product?

Julius	Walt
$\begin{array}{r} 25 \\ \times 16 \\ \hline 150 \\ + 250 \\ \hline 500 \end{array}$	$\begin{array}{r} 25 \\ \times 16 \\ \hline 200 \\ 50 \\ 120 \\ + 300 \\ \hline 670 \end{array}$

21. A clothing store sells 26 shirts and 22 pairs of jeans. Each item of clothing costs \$32.

Part A

What is a reasonable estimate for the total cost of the clothing?
Show _____ how you found your answer.

Part B

What is the exact answer for the total cost of the clothing? Show _____
how you found your answer.