

**Grade 6 Whole Number**
**Pre-Assessment**

1. Continue to skip count for 3 more numbers:

a. 140, 240, 340, 440, 540, 640

b. 7605, 7615, 7625, 7630, 7635, 7640

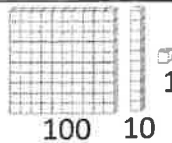
2. What values do the 3 and 7 represent in each number:

a. 73 3, 70


b. 307 300, 7

c. 30 700 30 000, 700

3. Write the number for each: Note:



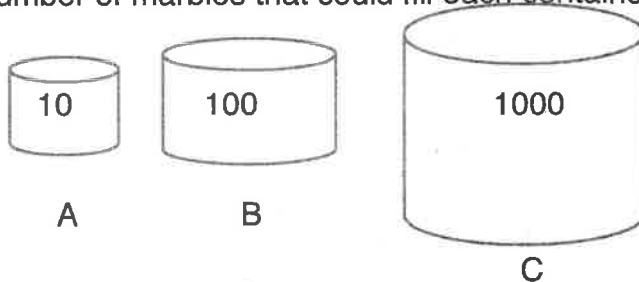
a.  320

b.  403

c. Four thousand twelve 4012

d. Twenty thousand two 20 002

4. The number of marbles that could fill each container is written on each container:



a. 450 marbles would fill 45 container As.

b. 1000 marbles would fill 10 container Bs.

c. 32 000 marbles would fill 32 container Cs.

5. Calculate:

a.  $5 \times 10 = \underline{50}$

e.  $60 \div 10 = \underline{6}$

b.  $10 \times 30 = \underline{300}$

f.  $130 \div 10 = \underline{13}$

c.  $9 \times 100 = \underline{900}$

g.  $4200 \div 100 = \underline{42}$

d.  $100 \times 12 = \underline{1200}$

h.  $4200 \div 10 = \underline{420}$

6. Solve using mental math:

a.  $32 + 24 = \underline{56}$

c.  $64 - 29 = \underline{35}$

b.  $48 + 9 = \underline{57}$

d.  $54 - 15 = \underline{39}$

7. Explain what mental math strategy you used for question 6 b:

Answers  
will  
vary

or  $\left. \begin{array}{l} 48 + 10 = 58, 58 - 1 = 57 \\ 48 + 2 + 7 = 50 + 7 = 57 \end{array} \right\}$

Explain what mental math strategy you used for question 6 c:

$\left. \begin{array}{l} 64 - 30 = 34, 34 + 1 = 35 \\ \text{or } 65 - 30 = 35 \end{array} \right\}$

8. Estimate the following:

a.  $427 + 394$  is about  $\underline{800}$  (to nearest hundred)

b.  $3041 + 4956$  is about  $\underline{8000}$  (to nearest thousand)

9. Add:

a.  $3873 + 584 = \underline{4457}$

b.  $3092 + 569 = \underline{3661}$

10. Estimate the following:

a.  $827 - 394 = \underline{400}$  (to nearest hundred)

b.  $6041 - 4956 = \underline{1000}$  (to nearest thousand)

11. Subtract:

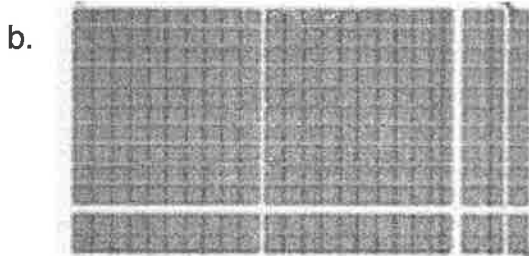
a.  $418 - 227 = \underline{191}$

b.  $5312 - 319 = \underline{4993}$

12. What multiplication is shown? Solve:



$$\begin{array}{r} 3 \times 24 = 72 \\ \hline 3 \text{ groups of } 24 \end{array}$$



$$\begin{array}{r} 12 \times 23 = 276 \\ \hline 12 \text{ rows of } 23 \end{array}$$

13. Estimate:

a.  $5 \times 34$  is about 150  
 $5 \times 30$

b.  $6 \times 475$  is about 3000  
 $6 \times 500$

*Answers will vary*

14. Calculate:

a.  $7 \times 51 = 357$

b.  $3 \times 648 = 1944$

c.  $42 \times 72 = 3024$

15. Describe a situation (or write a story problem) where you would use  $22 \times 23$  to solve:

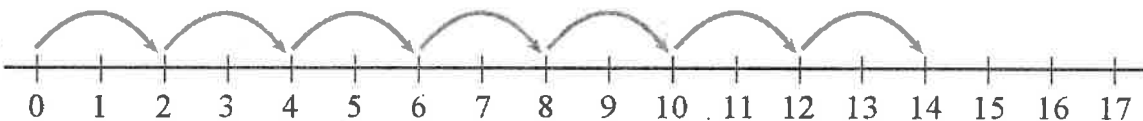
Answers will vary. 22 groups of 23.

---



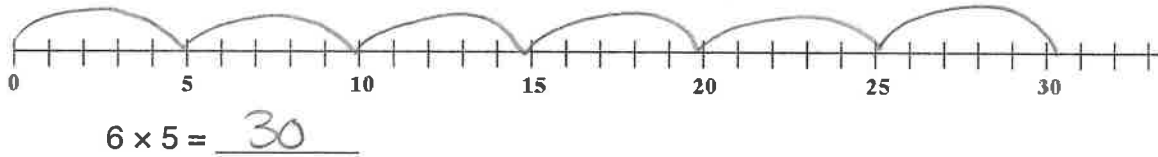
---

16.



a. Write the multiplication that matches the number line:  $7 \times 2 = 14$

b. Show the multiplication  $6 \times 5$  on the given number line:



17. Draw a picture to show each division and solve:

a.  $20 \div 4 = \underline{5}$



b.  $18 \div 3 = \underline{6}$



18. Calculate:

a.  $42 \div 2 = \underline{21}$

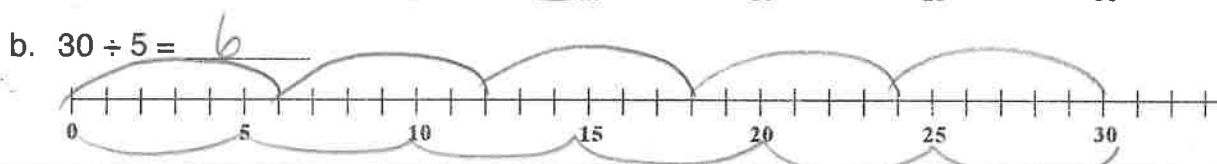
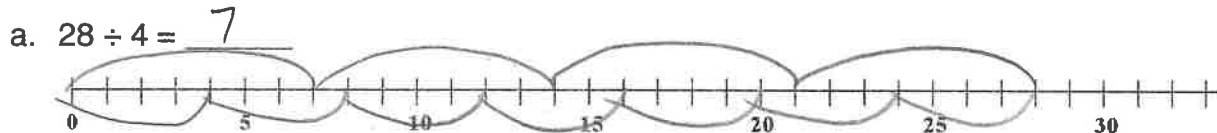
b.  $78 \div 7 = \underline{11\frac{1}{7}}$

c.  $424 \div 8 = \underline{53}$

19. Describe a situation (or write a story problem) where you would use  $651 \div 9$  to solve:

( $=72\frac{1}{3}$ ). Answers will vary. Either splitting 651 into 9 equal groups, or how many groups can be made with 9 in each group.

20. Show each division on the number lines below and solve:



*2 possible correct solutions*

21. For each problem below, show HOW you solved each:

- a. Jane went to 40 concerts and Emilie went to 22 concerts. How many more concerts did Jane go to?

$$40 - 22 = 18$$

- b. The cafeteria has 8 sections, each with 18 tables. How many tables are there altogether?

$$8 \times 18 = 144$$

- c. Jasleen's teacher collected \$675 for a field trip from 9 students. If each student paid the same, how much did each student pay?

$$675 \div 9 = 75$$

- d. The auditorium fits 475 people. Right now there are 212 boys and 187 girls in there. How many more students would fit in?

$$212 + 187 = 399$$

$$475 - 399 = 76 \text{ more people.}$$