

**Grade 7 Whole Number
Pre-Assessment**

1. What do the digits 4 and 7 represent in each number?

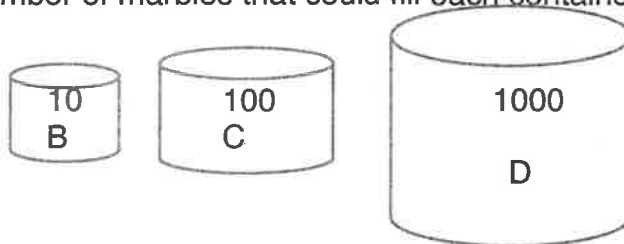
a. 427 210 400 000 7000

b. 143 792 40 000 700

c. 4 273 689 4 million 70 000

d. 4.7 million 4 million 700 000

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



a. 4500 marbles would fill 450 container Bs.

b. 23 000 marbles would fill 230 container Cs.

c. 320 000 000 marbles would fill 320 000 container Ds.

3. Calculate:

a. $500 \times 10 = \underline{5000}$

c. $6000 \div 10 = \underline{600}$

b. $100 \times 30 = \underline{3000}$

d. $1300 \div 100 = \underline{13}$

4. Solve using mental math:

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

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

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

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

5. Explain or show your mental solving strategies for questions 4b and 4c:

4b: $48 + 10 = 58, 58 - 1 = 57$ or $50 + 7 = 57$

4c: $64 - 30 = 34, 34 + 1 = 35$ or $65 - 30 = 35$

Answers will vary

6. Estimate the following:

a. $427 + 394$ is about 800 (to nearest hundred)

b. $3041 + 4956$ is about 8000 (to nearest thousand)

7. Add:

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

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

8. Estimate the following:

a. $919 - 821 = \underline{100}$ } may vary

b. $6041 - 4956 = \underline{1000}$

9. Subtract:

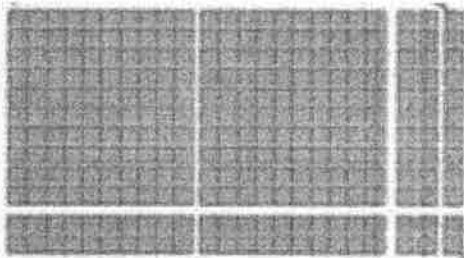
a. $418 - 227 = \underline{191}$

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

10. What multiplication is shown? Solve:



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



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

11. Estimate: (answers will vary)

a. 52×34 is about $\frac{1500}{50 \times 30}$

b. 61×475 is about $\frac{30\ 000}{60 \times 500}$

12. Calculate:

a. $27 \times 31 = \underline{837}$

b. $33 \times 65 = \underline{2145}$

13. Describe a situation (or write a story problem) where you would use 22×23 to solve:

22 groups of 23. Answers will vary

14. Solve:

a. $512 \div 6 = \underline{85\frac{1}{3}}$

b. $812 \div 9 = \underline{90\frac{2}{9}}$

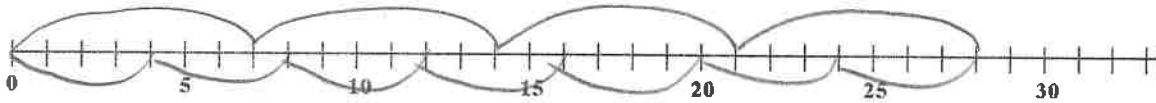
c. $3009 \div 4 = \underline{752\frac{1}{4}}$

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

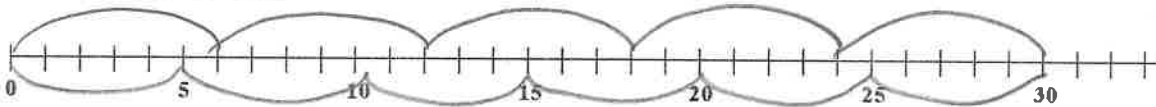
$(= 72 \frac{1}{3})$ Answers will vary - either splitting 651 into 9 equal sized groups, or how many groups can be made with 9 in each group.

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

a. $28 \div 4 = \underline{7}$



b. $30 \div 5 = \underline{6}$



17. For each problem below, show **how** you solved the problem:

a. Jane went to 40 concerts and Emilie when 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?

$$212 + 187 = 399$$

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

18. If Sheldon wears his blue coat every third day, his black shoes every fifth day and his red hat every sixth day, on what day(s) will he be wearing all three items?

3 6 9 12 15 18 21 24 27 30

5 10 15 20 25 30

6 12 18 24 30

Day 30