PERIMETER SCHOOL
A Covenant Christian Community

Rising Fifth Grade Summer Math Assignment

Knowing that students can lose some of their math skills and concepts over the summer, we have a math portion of our *Perimeter School Summer Assignments,* which students will be expected to complete and turn in when they return to school in the fall.

1. Students should complete the attached printed math sheets. These will also be available on the school website along with other grade level information and other summer assignments.

2. Parents, please review the completed work with your child. Answer keys are provided. (You may complete this process as many times as you like.)

3. Students should submit **all** completed work stapled to this sheet (with the **student's name** and a **parent's signature**) on **the first day of school - Monday, August 14**.

ASSIGNED MATH:

- Multiplication with Multiples of Ten
- Multiplication (Vertical)
- Determining Reasonable Answer
- Finding Division Remainders
- Determining Zero, Half, and Whole
- Adding and Subtracting Mixed Number Fractions
- Identifying Fractions
- Finding Perimeter and Area

OPTIONAL MATH ACTIVITIES:

- Practice addition, subtraction, multiplication, and division facts.

Student's Name _____

Parent's Signature _____

Multiplication with Multiples of Ten

Name:

Solve each problem.

1) 43 × 4

2) 97 × 8

3) 85 × 7

4) 71 × 8

5) 28 × 6

6) 96 × 8

7) 65 × 2

8) 80 × 5

9) 23 × 2

10) 60 × 7

11) 92 × 8

12) 43 × 9

13) 75 × 7

14) 60 × 7

15) 91 × 3

16) 70 × 8

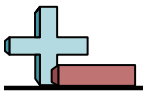
17) 87 × 9

18) 38 × 4

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

1-10	94	89	83	78	72	67	61	56	50	44
11-18	39	33	28	22	17	11	6	0		



Multiplication (Vertical)

Name:

Solve each problem.

1) 223 × 12

2) 637 × 54

3) 535 × 43

4) 341 × 98

5) 478 × 70

6) 636 × 60

7) 335 × 72

8) 800 × 77

9) 653 × 16

10) 960 × 17

11) 362 × 12

12) 493 × 91

13) 165 × 63

14) 600 × 97

15) 271 × 19

16) 250 × 44

17) 807 × 55

18) 218 × 54

19) 663 × 27

20) 335 × 13

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Determining Reasonable Answer

Name:

Determine if the answer shown is reasonable (yes) or not (no).

- Anything times 2 HAS to end in an even number (2,4,6,8,0). Ex. $2 \times 6 = 12$ $2 \times 13 = 26$
- Anything times 5 HAS to end in an either a 5 or a 0. Ex. $5 \times 4 = 20$ $5 \times 15 = 75$
- Anything times 10 HAS to end in a 0. Ex. $10 \times 7 = 70$ $10 \times 16 = 160$

1) $10 \times 485 = 4{,}852$

2) $401 \times 5 = 2{,}007$

3) $665 \times 2 = 1{,}330$

4) $5 \times 257 = 1{,}285$

5) $242 \times 2 = 484$

6) $10 \times 338 = 3{,}380$

7) $690 \times 5 = 3{,}453$

8) $10 \times 309 = 3{,}090$

9) $211 \times 2 = 422$

10) $226 \times 2 = 453$

11) $329 \times 10 = 3{,}290$

12) $10 \times 306 = 3{,}060$

13) $2 \times 646 = 1{,}293$

14) $5 \times 886 = 4{,}430$

15) $5 \times 882 = 4{,}412$

16) $540 \times 10 = 5{,}409$

17) $2 \times 577 = 1{,}155$

18) $648 \times 2 = 1{,}296$

19) $738 \times 5 = 3{,}691$

20) $243 \times 10 = 2{,}432$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Finding Division Remainders Name:

Use multiplication rules to determine the missing remainder for each problem.

1) 3,645÷10 = 364 r_____

2) 688÷5 = 137 r_____

3) 2,593÷2 = 1,296 r_____

4) 688÷5 = 137 r_____

5) 3,751÷2 = 1,875 r_____

6) 558÷10 = 55 r_____

7) 666÷5 = 133 r_____

8) 49÷10 = 4 r_____

9) 275÷2 = 137 r_____

10) 264÷2 = 132 r_____

11) 509÷10 = 50 r_____

12) 3,783÷10 = 378 r_____

13) 87÷2 = 43 r_____

14) 86÷5 = 17 r_____

15) 913÷5 = 182 r_____

16) 41÷10 = 4 r_____

17) 78÷2 = 39 r_____

18) 2,203÷2 = 1,101 r_____

19) 102÷5 = 20 r_____

20) 68÷10 = 6 r_____

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Determining Zero, Half and Whole Name:

Determine if the fractions shown is the same as 0, 1/2 or 1.

1) $\frac{0}{3}$ **2)** $\frac{0}{8}$ **3)** $\frac{7}{14}$ **4)** $\frac{0}{7}$

5) $\frac{8}{8}$ **6)** $\frac{0}{4}$ **7)** $\frac{0}{9}$ **8)** $\frac{0}{6}$

9) $\frac{5}{10}$ **10)** $\frac{0}{5}$ **11)** $\frac{7}{7}$ **12)** $\frac{3}{3}$

13) $\frac{4}{8}$ **14)** $\frac{3}{6}$ **15)** $\frac{2}{2}$ **16)** $\frac{6}{12}$

17) $\frac{4}{4}$ **18)** $\frac{9}{18}$ **19)** $\frac{5}{5}$ **20)** $\frac{6}{6}$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Solve each problem.

1) $\frac{1}{2} - \frac{1}{2} =$

2) $\frac{23}{6} + 3\frac{5}{6} =$

3) $\frac{7}{3} - \frac{7}{3} =$

4) $1\frac{2}{6} + \frac{11}{6} =$

5) $1\frac{1}{5} - \frac{9}{5} =$

6) $\frac{15}{12} + \frac{19}{12} =$

7) $1\frac{1}{4} - 1\frac{1}{4} =$

8) $\frac{5}{3} + \frac{5}{3} =$

9) $\frac{2}{5} - \frac{4}{5} =$

10) $1\frac{3}{5} + \frac{8}{5} =$

11) $\frac{25}{12} - 2\frac{2}{12} =$

12) $1\frac{1}{3} + 1\frac{1}{3} =$

Answers

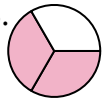
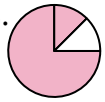
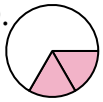
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

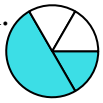
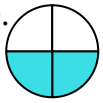
Identifying Fractions Name:

Determine which letter best represents each fraction.

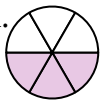
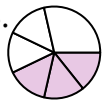
1) Which choice best represents $^{2}/_{3}$?

A.  B.  C.  D. 

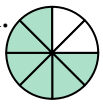
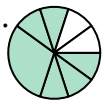
2) Which choice best represents $^{2}/_{4}$?

A.  B.  C.  D. 

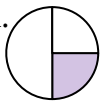
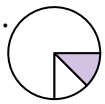
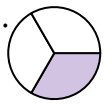
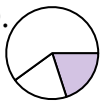
3) Which choice best represents $^{3}/_{6}$?

A.  B.  C.  D. 

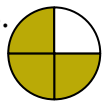
4) Which choice best represents $^{6}/_{8}$?

A.  B.  C.  D. 

5) Which choice best represents $^{1}/_{3}$?

A.  B.  C.  D. 

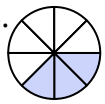
6) Which choice best represents $^{3}/_{4}$?

A.  B.  C.  D. 

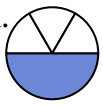
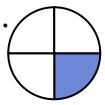
7) Which choice best represents $^{2}/_{6}$?

A.  B.  C.  D. 

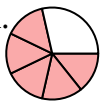
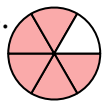
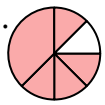
8) Which choice best represents $^{3}/_{8}$?

A.  B.  C.  D. 

9) Which choice best represents $^{1}/_{4}$?

A.  B.  C.  D. 

10) Which choice best represents $^{5}/_{6}$?

A.  B.  C.  D. 

11) Which choice best represents $^{2}/_{8}$?

A. B. C. D.

12) Which choice best represents $^{4}/_{6}$?

A. B. C. D.

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Solve each problem.

1) A rug had a length of 9 feet and a width of 3 feet. What is the perimeter of the rug?

2) A piece of plywood was cut so its length was 6 feet by 2 feet. What is the area of the wood?

3) Rachel had a sheet of paper that was 9 inches long and 4 inches wide. What is the perimeter of the paper?

4) Carol was cutting out some fabric for a friend. She cut a piece that was 6 centimeters wide and had an area of 30 cm^2. How long was the piece?

5) Tiffany had a sheet of paper that was 9 inches long and the area was 63 in^2. What is the width of the paper?

6) The woods behind Tom's house were 6 miles wide and 10 miles long. What is the area of the woods?

7) Lana was cutting out some fabric for a friend. She cut a piece that was 7 centimeters wide and 6 centimeters long. What is the area of the fabric she cut out?

8) An island in the Indian Ocean was 4 miles wide and 10 miles long. What is the perimeter of the island?

9) The woods behind Victor's house were 5 miles wide and 6 miles long. What is the perimeter of the woods?

10) A bathroom had a length of 2 feet and a total area of 6 ft^2. What is the width of the bathroom?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Multiplication with Multiples of Ten Name: **Answer Key**

Solve each problem.

1) 43 × 4 = 172

2) 97 × 8 = 776

3) 85 × 7 = 595

4) 71 × 8 = 568

5) 28 × 6 = 168

6) 96 × 8 = 768

7) 65 × 2 = 130

8) 80 × 5 = 400

9) 23 × 2 = 46

10) 60 × 7 = 420

11) 92 × 8 = 736

12) 43 × 9 = 387

13) 75 × 7 = 525

14) 60 × 7 = 420

15) 91 × 3 = 273

16) 70 × 8 = 560

17) 87 × 9 = 783

18) 38 × 4 = 152

Answers

1. 172
2. 776
3. 595
4. 568
5. 168
6. 768
7. 130
8. 400
9. 46
10. 420
11. 736
12. 387
13. 525
14. 420
15. 273
16. 560
17. 783
18. 152

1-10	94	89	83	78	72	67	61	56	50	44
11-18	39	33	28	22	17	11	6	0		

Multiplication (Vertical) Name: **Answer Key**

Solve each problem.

1) 223 × 12 = 446 + 2,230 = 2,676

2) 637 × 54 = 2,548 + 31,850 = 34,398

3) 535 × 43 = 1,605 + 21,400 = 23,005

4) 341 × 98 = 2,728 + 30,690 = 33,418

5) 478 × 70 = 0 + 33,460 = 33,460

6) 636 × 60 = 0 + 38,160 = 38,160

7) 335 × 72 = 670 + 23,450 = 24,120

8) 800 × 77 = 5,600 + 56,000 = 61,600

9) 653 × 16 = 3,918 + 6,530 = 10,448

10) 960 × 17 = 6,720 + 9,600 = 16,320

11) 362 × 12 = 724 + 3,620 = 4,344

12) 493 × 91 = 493 + 44,370 = 44,863

13) 165 × 63 = 495 + 9,900 = 10,395

14) 600 × 97 = 4,200 + 54,000 = 58,200

15) 271 × 19 = 2,439 + 2,710 = 5,149

16) 250 × 44 = 1,000 + 10,000 = 11,000

17) 807 × 55 = 4,035 + 40,350 = 44,385

18) 218 × 54 = 872 + 10,900 = 11,772

19) 663 × 27 = 4,641 + 13,260 = 17,901

20) 335 × 13 = 1,005 + 3,350 = 4,355

Answers

1. 2,676
2. 34,398
3. 23,005
4. 33,418
5. 33,460
6. 38,160
7. 24,120
8. 61,600
9. 10,448
10. 16,320
11. 4,344
12. 44,863
13. 10,395
14. 58,200
15. 5,149
16. 11,000
17. 44,385
18. 11,772
19. 17,901
20. 4,355

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Determine if the answer shown is reasonable (yes) or not (no).

- Anything times 2 HAS to end in an even number (2,4,6,8,0). Ex. 2 × 6 = 12 2 × 13 = 26
- Anything times 5 HAS to end in an either a 5 or a 0. Ex. 5 × 4 = 20 5 × 15 = 75
- Anything times 10 HAS to end in a 0. Ex. 10 × 7 = 70 10 × 16 = 160

1) 10 × 485 = 4,852

2) 401 × 5 = 2,007

3) 665 × 2 = 1,330

4) 5 × 257 = 1,285

5) 242 × 2 = 484

6) 10 × 338 = 3,380

7) 690 × 5 = 3,453

8) 10 × 309 = 3,090

9) 211 × 2 = 422

10) 226 × 2 = 453

11) 329 × 10 = 3,290

12) 10 × 306 = 3,060

13) 2 × 646 = 1,293

14) 5 × 886 = 4,430

15) 5 × 882 = 4,412

16) 540 × 10 = 5,409

17) 2 × 577 = 1,155

18) 648 × 2 = 1,296

19) 738 × 5 = 3,691

20) 243 × 10 = 2,432

Answers

1. no
2. no
3. yes
4. yes
5. yes
6. yes
7. no
8. yes
9. yes
10. no
11. yes
12. yes
13. no
14. yes
15. no
16. no
17. no
18. yes
19. no
20. no

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Finding Division Remainders Name: **Answer Key**

Use multiplication rules to determine the missing remainder for each problem.

1) 3,645÷10 = 364 r 5

2) 688÷5 = 137 r 3

3) 2,593÷2 = 1,296 r 1

4) 688÷5 = 137 r 3

5) 3,751÷2 = 1,875 r 1

6) 558÷10 = 55 r 8

7) 666÷5 = 133 r 1

8) 49÷10 = 4 r 9

9) 275÷2 = 137 r 1

10) 264÷2 = 132 r 0

11) 509÷10 = 50 r 9

12) 3,783÷10 = 378 r 3

13) 87÷2 = 43 r 1

14) 86÷5 = 17 r 1

15) 913÷5 = 182 r 3

16) 41÷10 = 4 r 1

17) 78÷2 = 39 r 0

18) 2,203÷2 = 1,101 r 1

19) 102÷5 = 20 r 2

20) 68÷10 = 6 r 8

Answers

1. 5
2. 3
3. 1
4. 3
5. 1
6. 8
7. 1
8. 9
9. 1
10. 0
11. 9
12. 3
13. 1
14. 1
15. 3
16. 1
17. 0
18. 1
19. 2
20. 8

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Determining Zero, Half and Whole Name: **Answer Key**

Determine if the fractions shown is the same as 0, 1/2 or 1.

1) $\frac{0}{3}$ **2)** $\frac{0}{8}$ **3)** $\frac{7}{14}$ **4)** $\frac{0}{7}$

5) $\frac{8}{8}$ **6)** $\frac{0}{4}$ **7)** $\frac{0}{9}$ **8)** $\frac{0}{6}$

9) $\frac{5}{10}$ **10)** $\frac{0}{5}$ **11)** $\frac{7}{7}$ **12)** $\frac{3}{3}$

13) $\frac{4}{8}$ **14)** $\frac{3}{6}$ **15)** $\frac{2}{2}$ **16)** $\frac{6}{12}$

17) $\frac{4}{4}$ **18)** $\frac{9}{18}$ **19)** $\frac{5}{5}$ **20)** $\frac{6}{6}$

Answers

1. 0
2. 0
3. 1/2
4. 0
5. 1
6. 0
7. 0
8. 0
9. 1/2
10. 0
11. 1
12. 1
13. 1/2
14. 1/2
15. 1
16. 1/2
17. 1
18. 1/2
19. 1
20. 1

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

Solve each problem.

1) $\frac{1}{2} - \frac{1}{2} = \frac{0}{2}$

2) $\frac{23}{6} + 3\frac{5}{6} = \frac{46}{6}$

3) $\frac{7}{3} - \frac{7}{3} = \frac{0}{3}$

4) $1\frac{2}{6} + \frac{11}{6} = \frac{19}{6}$

5) $1\frac{1}{5} - \frac{9}{5} = \frac{-3}{5}$

6) $\frac{15}{12} + \frac{19}{12} = \frac{34}{12}$

7) $1\frac{1}{4} - 1\frac{1}{4} = \frac{0}{4}$

8) $\frac{5}{3} + \frac{5}{3} = \frac{10}{3}$

9) $\frac{2}{5} - \frac{4}{5} = \frac{-2}{5}$

10) $1\frac{3}{5} + \frac{8}{5} = \frac{16}{5}$

11) $\frac{25}{12} - 2\frac{2}{12} = \frac{-1}{12}$

12) $1\frac{1}{3} + 1\frac{1}{3} = \frac{8}{3}$

Answers

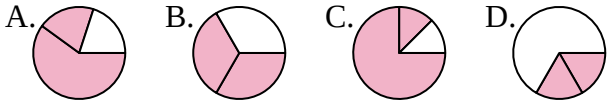
1. $^{0}/_{2} = 0$
2. $7\,^{4}/_{6} = 7\,^{2}/_{3}$
3. $^{0}/_{3} = 0$
4. $3\,^{1}/_{6}$
5. $-1\,^{2}/_{5}$
6. $2\,^{10}/_{12} = 2\,^{5}/_{6}$
7. $^{0}/_{4} = 0$
8. $3\,^{1}/_{3}$
9. $-1\,^{3}/_{5}$
10. $3\,^{1}/_{5}$
11. $-1\,^{11}/_{12}$
12. $2\,^{2}/_{3}$

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

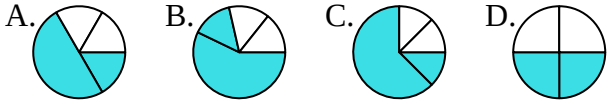
Identifying Fractions Name: **Answer Key**

Determine which letter best represents each fraction.

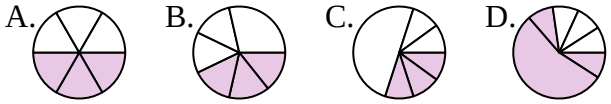
1) Which choice best represents $^{2}/_{3}$?



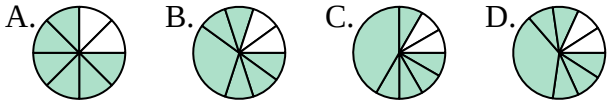
2) Which choice best represents $^{2}/_{4}$?



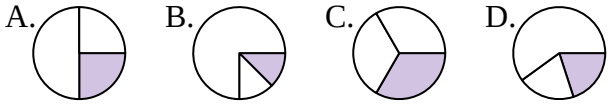
3) Which choice best represents $^{3}/_{6}$?



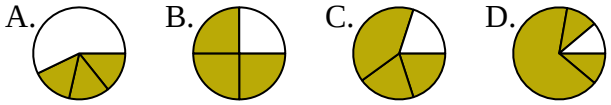
4) Which choice best represents $^{6}/_{8}$?



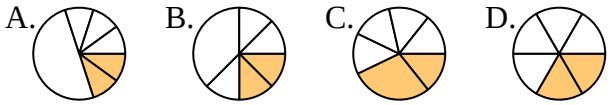
5) Which choice best represents $^{1}/_{3}$?



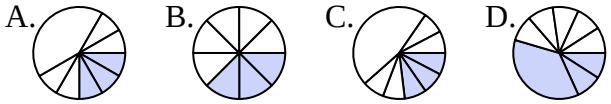
6) Which choice best represents $^{3}/_{4}$?



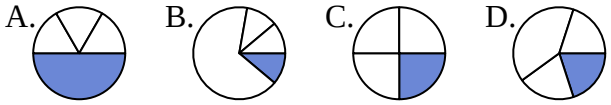
7) Which choice best represents $^{2}/_{6}$?



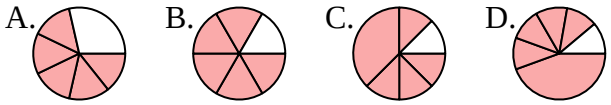
8) Which choice best represents $^{3}/_{8}$?



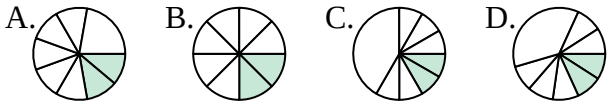
9) Which choice best represents $^{1}/_{4}$?



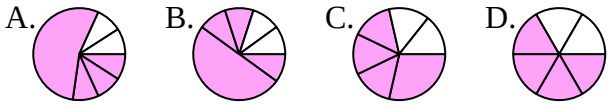
10) Which choice best represents $^{5}/_{6}$?



11) Which choice best represents $^{2}/_{8}$?



12) Which choice best represents $^{4}/_{6}$?



Answers

1. **B**
2. **D**
3. **A**
4. **A**
5. **C**
6. **B**
7. **D**
8. **B**
9. **C**
10. **B**
11. **B**
12. **D**

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Solve each problem.

1) A rug had a length of 9 feet and a width of 3 feet. What is the perimeter of the rug?

2) A piece of plywood was cut so its length was 6 feet by 2 feet. What is the area of the wood?

3) Rachel had a sheet of paper that was 9 inches long and 4 inches wide. What is the perimeter of the paper?

4) Carol was cutting out some fabric for a friend. She cut a piece that was 6 centimeters wide and had an area of 30 cm^2. How long was the piece?

5) Tiffany had a sheet of paper that was 9 inches long and the area was 63 in^2. What is the width of the paper?

6) The woods behind Tom's house were 6 miles wide and 10 miles long. What is the area of the woods?

7) Lana was cutting out some fabric for a friend. She cut a piece that was 7 centimeters wide and 6 centimeters long. What is the area of the fabric she cut out?

8) An island in the Indian Ocean was 4 miles wide and 10 miles long. What is the perimeter of the island?

9) The woods behind Victor's house were 5 miles wide and 6 miles long. What is the perimeter of the woods?

10) A bathroom had a length of 2 feet and a total area of 6 ft^2. What is the width of the bathroom?

Answers

1. **24 ft**
2. **12 ft^2**
3. **26 in**
4. **5 cm**
5. **7 in**
6. **60 mi^2**
7. **42 cm^2**
8. **28 mi**
9. **22 mi**
10. **3 ft**

1-10	90	80	70	60	50	40	30	20	10	0