

CHART 1

Quarter Notes and Rests



CHART 1.5

Quarter Notes and Rests

? Ask your teacher where
all the time signatures went!

A musical chart consisting of 32 measures, numbered 1 through 32, arranged in eight rows of four measures each. The chart is written in 4/4 time, indicated by a treble clef and a 4/4 time signature at the beginning of the first measure. The notes and rests are as follows:

- Measure 1: Quarter note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 2: Whole rest.
- Measure 3: Quarter note G4, quarter note A4, quarter note B4, quarter rest.
- Measure 4: Quarter note G4, quarter note A4, quarter rest, quarter note B4.
- Measure 5: Quarter note G4, quarter rest, quarter note A4, quarter note B4.
- Measure 6: Quarter rest, quarter note G4, quarter note A4, quarter note B4.
- Measure 7: Quarter note G4, quarter rest, quarter note A4, quarter rest.
- Measure 8: Quarter rest, quarter note G4, quarter rest, quarter note A4.
- Measure 9: Quarter rest, quarter rest, quarter note G4, quarter note A4.
- Measure 10: Quarter note G4, quarter note A4, quarter rest, quarter rest.
- Measure 11: Quarter rest, quarter note G4, quarter note A4, quarter rest.
- Measure 12: Quarter note G4, quarter rest, quarter rest, quarter note A4.
- Measure 13: Quarter note G4, quarter rest, quarter rest, quarter rest.
- Measure 14: Quarter rest, quarter note G4, quarter rest, quarter rest.
- Measure 15: Quarter rest, quarter rest, quarter note G4, quarter rest.
- Measure 16: Quarter rest, quarter rest, quarter rest, quarter note G4.
- Measure 17: Whole rest.
- Measure 18: Quarter note G4, quarter note A4, quarter note B4, quarter rest.
- Measure 19: Quarter note G4, quarter note A4, quarter rest, quarter note B4.
- Measure 20: Quarter note G4, quarter rest, quarter note A4, quarter note B4.
- Measure 21: Quarter rest, quarter rest, quarter note G4, quarter note A4.
- Measure 22: Quarter note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 23: Quarter note G4, quarter note A4, quarter rest, quarter rest.
- Measure 24: Quarter rest, quarter note G4, quarter note A4, quarter rest.
- Measure 25: Quarter note G4, quarter rest, quarter note A4, quarter rest.
- Measure 26: Whole rest.
- Measure 27: Quarter note G4, quarter note A4, quarter rest, quarter rest.
- Measure 28: Quarter rest, quarter note G4, quarter rest, quarter note A4.
- Measure 29: Quarter note G4, quarter note A4, quarter rest, quarter note B4.
- Measure 30: Quarter rest, quarter rest, quarter note G4, quarter note A4.
- Measure 31: Quarter note G4, quarter rest, quarter rest, quarter rest.
- Measure 32: Quarter rest, quarter rest, quarter note G4, quarter rest.

EXTRA PRACTICE 1

Lots of Rests

The musical score consists of 32 measures, numbered 1 through 32, arranged in eight rows of four measures each. The notation is in a single treble clef with a 4/4 time signature. The notes are quarter notes, and the rests are half notes. The sequence of notes and rests is as follows:

- Measure 1: Quarter note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 2: Quarter note G4, half rest.
- Measure 3: Quarter note G4, quarter rest, quarter rest, quarter note G4.
- Measure 4: Quarter note G4, quarter rest, quarter rest, quarter rest, quarter note G4.
- Measure 5: Quarter rest, quarter rest, quarter rest, quarter note G4.
- Measure 6: Quarter note G4, quarter rest, quarter note G4, quarter rest.
- Measure 7: Quarter note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 8: Quarter rest, quarter note G4, quarter rest, quarter note G4.
- Measure 9: Quarter rest, quarter rest, quarter rest, quarter note G4.
- Measure 10: Quarter rest, quarter rest, quarter rest, quarter note G4.
- Measure 11: Quarter rest, quarter rest, quarter note G4, quarter rest.
- Measure 12: Quarter note G4, quarter note A4, quarter rest, quarter rest.
- Measure 13: Quarter rest, quarter rest, quarter note G4, quarter note A4.
- Measure 14: Quarter note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 15: Quarter rest, quarter rest, quarter rest, quarter rest.
- Measure 16: Quarter rest, quarter rest, quarter rest, quarter note G4.
- Measure 17: Quarter rest, quarter rest, quarter note G4, quarter rest.
- Measure 18: Quarter rest, quarter note G4, quarter rest, quarter rest.
- Measure 19: Quarter note G4, quarter rest, quarter rest, quarter rest.
- Measure 20: Quarter note G4, quarter note A4, quarter note B4, quarter rest.
- Measure 21: Quarter note G4, quarter note A4, quarter rest, quarter rest.
- Measure 22: Quarter note G4, quarter rest, quarter rest, quarter rest.
- Measure 23: Quarter rest, quarter note G4, quarter rest, quarter note G4.
- Measure 24: Quarter rest, quarter note G4, quarter rest, quarter note G4.
- Measure 25: Quarter note G4, quarter rest, quarter note G4, quarter rest.
- Measure 26: Quarter note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 27: Quarter rest, quarter rest, quarter rest, quarter rest.
- Measure 28: Quarter rest, quarter note G4, quarter note A4, quarter rest.
- Measure 29: Quarter note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 30: Quarter note G4, quarter rest, quarter rest, quarter note G4.
- Measure 31: Quarter rest, quarter note G4, quarter rest, quarter rest.
- Measure 32: Quarter rest, quarter note G4, quarter note A4, quarter note B4, quarter note C5.

CHART 2

Quarter and Half Notes with Rests

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

33 34 35 36

CHART 2.5

More Quarter and Half Notes with Rests

The chart consists of 28 measures of music, organized into seven rows of four measures each. The notation is in 4/4 time and uses a treble clef. The notes and rests are as follows:

- Measure 1: Quarter notes G4, A4, B4, C5.
- Measure 2: Half note G4, half note A4.
- Measure 3: Quarter notes G4, A4, B4, C5.
- Measure 4: Quarter notes G4, A4, B4, half note C5.
- Measure 5: Quarter notes G4, A4, B4, C5.
- Measure 6: Quarter notes G4, A4, B4, C5.
- Measure 7: Half note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 8: Half note G4, half note A4.
- Measure 9: Half note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 10: Quarter notes G4, A4, B4, C5.
- Measure 11: Quarter notes G4, A4, B4, half note C5.
- Measure 12: Quarter notes G4, A4, B4, C5.
- Measure 13: Quarter notes G4, A4, B4, C5.
- Measure 14: Half note G4, quarter note A4, quarter note B4, quarter note C5.
- Measure 15: Half note G4, quarter rest, quarter note A4, quarter note B4.
- Measure 16: Quarter notes G4, A4, B4, quarter rest.
- Measure 17: Quarter notes G4, A4, quarter rest, quarter rest.
- Measure 18: Half note G4, quarter rest, quarter rest, quarter rest.
- Measure 19: Quarter rest, quarter note A4, half note B4.
- Measure 20: Quarter rest, half note A4, quarter note B4.
- Measure 21: Quarter notes G4, A4, B4, C5.
- Measure 22: Quarter note G4, quarter rest, quarter rest, quarter note B4.
- Measure 23: Quarter notes G4, A4, B4, C5.
- Measure 24: Quarter rest, half note A4, quarter rest.
- Measure 25: Quarter rest, quarter note A4, quarter rest, quarter rest.
- Measure 26: Half note G4, quarter note A4, quarter rest, quarter rest.
- Measure 27: Quarter notes G4, A4, quarter rest, quarter note B4.
- Measure 28: Half note G4, quarter note A4, quarter note B4, quarter note C5.

CHART 3

Quarter, Half, and Whole Notes

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

The chart consists of seven staves of music in 4/4 time. Each staff contains four measures of music, numbered 1 through 28. The notes are as follows:

- Staff 1: Measure 1 (quarter, quarter), Measure 2 (half), Measure 3 (quarter, quarter), Measure 4 (whole).
- Staff 2: Measure 5 (quarter, quarter, quarter, quarter), Measure 6 (half), Measure 7 (quarter, quarter, quarter, quarter), Measure 8 (whole).
- Staff 3: Measure 9 (quarter, quarter, quarter, quarter), Measure 10 (half, half), Measure 11 (quarter, quarter, quarter, quarter), Measure 12 (whole).
- Staff 4: Measure 13 (quarter, quarter, quarter, quarter), Measure 14 (half, quarter, quarter), Measure 15 (quarter, quarter, quarter, quarter), Measure 16 (half, quarter, quarter).
- Staff 5: Measure 17 (quarter, quarter, quarter, quarter), Measure 18 (half, half), Measure 19 (quarter, quarter, quarter, quarter), Measure 20 (whole).
- Staff 6: Measure 21 (quarter, quarter, quarter, quarter), Measure 22 (half, quarter, quarter), Measure 23 (quarter, quarter, quarter, quarter), Measure 24 (whole).
- Staff 7: Measure 25 (quarter, quarter, quarter, quarter), Measure 26 (half, quarter, quarter), Measure 27 (quarter, quarter, quarter, quarter), Measure 28 (half, quarter, quarter).

CHART 3.5

Quarter, Half, and Whole Notes with Rests

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

The chart consists of 32 measures of music in 4/4 time, arranged in eight rows of four measures each. The notation includes quarter, half, and whole notes, as well as rests. The notes are primarily on the middle lines of the staff (G4, A4, B4, C5). The rests are placed on the middle lines of the staff. The chart is numbered 1 through 32 at the beginning of each measure.

CHART 4

Dotted Half Notes

? Ask your teacher what the letter 'C' in measure one means!

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

* A dot adds 1/2 the value of the note it is dotting. *

CHART 4.5

More Dotted Half Notes

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

The chart consists of seven staves of music in treble clef, each containing four measures. The notes and rests are as follows:

- Staff 1: Measure 1 (quarter, quarter, quarter), Measure 2 (dotted half), Measure 3 (quarter, quarter, quarter), Measure 4 (quarter, dotted half).
- Staff 2: Measure 5 (quarter, dotted half), Measure 6 (quarter, quarter, quarter, quarter), Measure 7 (dotted half, quarter), Measure 8 (half, quarter).
- Staff 3: Measure 9 (quarter, quarter, quarter, quarter), Measure 10 (quarter, dotted half), Measure 11 (dotted half, quarter), Measure 12 (quarter, quarter, quarter).
- Staff 4: Measure 13 (quarter, quarter, quarter, quarter), Measure 14 (quarter, quarter, quarter, quarter), Measure 15 (quarter, dotted half, quarter), Measure 16 (quarter, quarter, quarter, quarter).
- Staff 5: Measure 17 (quarter, quarter, quarter, quarter), Measure 18 (quarter, dotted half, quarter, quarter), Measure 19 (quarter, quarter, quarter, quarter), Measure 20 (quarter, dotted half, quarter, quarter).
- Staff 6: Measure 21 (quarter, quarter, quarter, quarter), Measure 22 (quarter, quarter, quarter, quarter), Measure 23 (quarter, quarter, quarter, quarter), Measure 24 (quarter, dotted half, quarter, quarter).
- Staff 7: Measure 25 (quarter, quarter, quarter, quarter), Measure 26 (quarter, quarter, quarter, quarter), Measure 27 (quarter, dotted half, quarter, quarter), Measure 28 (quarter, quarter, quarter, quarter).

CHART 5

Time Signatures

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

Detailed description: The chart consists of 32 measures of music, each on a single staff. The time signatures are: 4/4 (measures 1-8), 3/4 (measures 9-16), 2/4 (measures 17-24), and C (measures 25-28). Measures 29-32 are in 2/4, 4/4, 4/4, and 4/4 respectively. The notation includes quarter notes, half notes, and rests.

CHART 6

Eighth Notes

10 staves of musical notation, numbered 1 through 10. Each staff begins with a treble clef and a common time signature (C). The notation consists of eighth notes and eighth rests, arranged in a pattern that alternates between quarter notes and eighth notes. The first staff (1) starts with a quarter note on G4, followed by a quarter note on A4, then a quarter note on B4, and a quarter note on C5. The second staff (2) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The third staff (3) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The fourth staff (4) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The fifth staff (5) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The sixth staff (6) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The seventh staff (7) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The eighth staff (8) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The ninth staff (9) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5. The tenth staff (10) starts with an eighth note on G4, followed by an eighth note on A4, then an eighth note on B4, and an eighth note on C5.

CHART 6.5

Eighth, Quarter, Half, and Whole Notes with Rests

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

The chart consists of 32 measures of music in 4/4 time, organized into eight rows of four measures each. The notation includes eighth, quarter, half, and whole notes, along with rests. The measures are numbered 1 through 32. The first measure (1) starts with a treble clef and a 4/4 time signature. The notes are: 1: quarter, quarter, eighth, eighth; 2: quarter, quarter, quarter, quarter; 3: quarter, quarter, quarter, quarter; 4: quarter, quarter, quarter, quarter; 5: quarter, quarter, quarter, quarter; 6: quarter, quarter, quarter, quarter; 7: quarter, quarter, quarter, quarter; 8: quarter, quarter, quarter, quarter; 9: quarter, quarter, quarter, quarter; 10: quarter, quarter, quarter, quarter; 11: quarter, quarter, quarter, quarter; 12: quarter, quarter, quarter, quarter; 13: quarter, quarter, quarter, quarter; 14: quarter, quarter, quarter, quarter; 15: quarter, quarter, quarter, quarter; 16: quarter, quarter, quarter, quarter; 17: quarter, quarter, quarter, quarter; 18: quarter, quarter, quarter, quarter; 19: quarter, quarter, quarter, quarter; 20: quarter, quarter, quarter, quarter; 21: quarter, quarter, quarter, quarter; 22: quarter, quarter, quarter, quarter; 23: quarter, quarter, quarter, quarter; 24: quarter, quarter, quarter, quarter; 25: quarter, quarter, quarter, quarter; 26: quarter, quarter, quarter, quarter; 27: quarter, quarter, quarter, quarter; 28: quarter, quarter, quarter, quarter; 29: quarter, quarter, quarter, quarter; 30: quarter, quarter, quarter, quarter; 31: quarter, quarter, quarter, quarter; 32: quarter, quarter, quarter, quarter.

CHART 7

Eighth Notes and Eighth Rests

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

33 34 35 36

CHART 7.5

Eighth Notes and Rests with Time Change

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

33 34 35 36

CHART 8

Ties

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

33 34 35 36

CHART 9

Dotted Quarter Notes

1a

1b

1c

2a

2b

2c

3a

3b

3c

CHART 9.5

Dotted Quarter Notes

This musical chart is written in 4/4 time and consists of 36 measures, numbered 1 through 36. The notes are as follows:

- Measure 1: Quarter, eighth, eighth, quarter, quarter, quarter, quarter, quarter
- Measure 2: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 3: Quarter, quarter, quarter, quarter, eighth, eighth, quarter, quarter
- Measure 4: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 5: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 6: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 7: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 8: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 9: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 10: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 11: Quarter, quarter, quarter, quarter, eighth, eighth, quarter, quarter
- Measure 12: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 13: Quarter, quarter, quarter, quarter, eighth, eighth, quarter, quarter
- Measure 14: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 15: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 16: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 17: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 18: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 19: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 20: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 21: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 22: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 23: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 24: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 25: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 26: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 27: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 28: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 29: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 30: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 31: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 32: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 33: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 34: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 35: Dotted quarter, eighth, quarter, quarter, quarter, quarter, quarter, quarter
- Measure 36: Quarter, quarter, quarter, quarter, quarter, quarter, quarter, quarter

CHART 10

Syncopation

The musical score consists of 24 measures, numbered 1 through 24, arranged in six rows of four measures each. The music is written in treble clef with a common time signature (C). The notes are as follows:

- Measure 1: Quarter notes G4, A4, B4, C5.
- Measure 2: Quarter notes G4, A4, B4, C5, with a slur over the first three notes.
- Measure 3: Quarter notes G4, A4, B4, C5.
- Measure 4: Quarter notes G4, A4, B4, C5, with a slur over the first three notes.
- Measure 5: Quarter notes G4, A4, B4, C5.
- Measure 6: Quarter notes G4, A4, B4, C5, with a slur over the first two notes.
- Measure 7: Quarter notes G4, A4, B4, C5.
- Measure 8: Quarter notes G4, A4, B4, C5, with a slur over the first two notes.
- Measure 9: Quarter notes G4, A4, B4, C5.
- Measure 10: Quarter notes G4, A4, B4, C5, with a slur over the last three notes.
- Measure 11: Quarter notes G4, A4, B4, C5.
- Measure 12: Quarter notes G4, A4, B4, C5.
- Measure 13: Quarter notes G4, A4, B4, C5.
- Measure 14: Quarter notes G4, A4, B4, C5.
- Measure 15: Quarter notes G4, A4, B4, C5.
- Measure 16: Quarter notes G4, A4, B4, C5.
- Measure 17: Quarter notes G4, A4, B4, C5.
- Measure 18: Quarter notes G4, A4, B4, C5.
- Measure 19: Quarter notes G4, A4, B4, C5.
- Measure 20: Quarter notes G4, A4, B4, C5.
- Measure 21: Quarter notes G4, A4, B4, C5.
- Measure 22: Quarter notes G4, A4, B4, C5.
- Measure 23: Quarter notes G4, A4, B4, C5.
- Measure 24: Quarter notes G4, A4, B4, C5.

CHART 10.5

Mixed Syncopation

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

33 34 35 36

CHART 10.75

Syncopation with Rests

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

33 34 35 36

CHART 11

Sixteenth Notes

1

2

3

4

5

6

7

8

CHART 11.5

Mixed Sixteenths

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

33 34 35 36

Chart 12.75

Mixed Sixteenth Rhythms

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32

Chart 13

Dotted-Eighth Sixteenths

1 2 3 4

1

5 6 7 8

2

9 10 11 12

3

13 14 15 16

4

17 18 19 20

5

21 22 23 24

6

25 26 27 28

7

29 30 31 32 33 34 35 36

8

Chart 13.5

Crazy Sixteenth Rhythms

This musical chart consists of 32 measures of music, organized into eight rows of four measures each. The notation is in treble clef with a common time signature (C). The measures are numbered 1 through 32. The rhythms are highly complex, featuring various combinations of eighth and sixteenth notes, often with beams connecting them. Some measures include rests, and there are occasional accents or slurs. The overall style is rhythmic and challenging, typical of advanced piano or guitar exercises.

6/8 Counting

Mixed Triplet Rhythms

In 6/8 time, the dotted-quarter note gets the beat. There are only 2 beats per measure that are divided into triplets.

1 2 3 4

1 la li 2 la li

5 6 7 8

9 10 11 12

13 14 15 16

17 18 19 20

21 22 23 24

25 26 27 28

29 30 31 32