## Parallelogram Worksheet - 2

1. Every parallelogram is a rectangle. Mark True / False.
a) True
b) False
2. Every square is a parallelogram. Mark True / False.
a) True
b) False
3. A parallelogram can be constructed uniquely, if both diagonals and the angle between them is given. Mark True / False.
a) True
b) False
4. Parallelograms diagonals bisect each other at a right angle. Mark True / False.
a) True
b) False
5. In a parallelogram $A B C D$, If $\angle A$ is equal to $60^{\circ}$, then it's adjacent angle would be $110^{\circ}$. Mark True / False.
a) True
b) False
6. If $P Q R S$ is a parallelogram, then $\angle \mathrm{P}-\angle \mathrm{R}$ is equal to $0^{\circ}$. Mark True / False.
a) True
b) False
7. If diagonals of a parallelogram bisect each other, it must be a parallelogram. Mark True / False.
a) True
b) False
8. Two adjacent angles of a parallelogram are in the ratio $1: 3$. What is the measure of the largest angles?
a) $45^{\circ}$
b) $60^{\circ}$
c) $\quad 90^{\circ}$
d) $135^{\circ}$
9. The adjacent angles of a parallelogram are $(2 p-4)^{\circ}$ and $(3 p-1)^{\circ}$. find the measures of all angles of the parallelogram.
a) $70^{\circ}, 110^{\circ}, 70^{\circ}, 100^{\circ}$
b) $80^{\circ}, 100^{\circ}, 80^{\circ}, 100^{\circ}$
c) $70^{\circ}, 110^{\circ}, 70^{\circ}, 110^{\circ}$
d) None of these
10. In a parallelogram $\mathrm{ABCD} \angle \mathrm{A}=70^{\circ}$, find $\angle \mathrm{B}, \angle \mathrm{C}$ and $\angle \mathrm{D}$.
a) $\angle \mathrm{B}=110^{\circ}, \angle \mathrm{C}=70^{\circ}$ and $\angle \mathrm{D}=100^{\circ}$
b) $\angle \mathrm{B}=70^{\circ}, \angle \mathrm{C}=100^{\circ}$ and $\angle \mathrm{D}=100^{\circ}$
c) $\angle \mathrm{B}=110^{\circ}, \angle \mathrm{C}=70^{\circ}$ and $\angle \mathrm{D}=110^{\circ}$
d) None of these
11. In a parallelogram $\mathrm{ABCD}, \angle \mathrm{A}$ is 4 times $\angle \mathrm{B}$. Find the value of $\angle \mathrm{A}$ and $\angle \mathrm{B}$.
a) $\angle \mathrm{A}=136^{\circ}$ and $\angle \mathrm{B}=45^{\circ}$

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b) $\quad \angle \mathrm{A}=125^{\circ}$ and $\angle \mathrm{B}=55^{\circ}$
c) $\angle \mathrm{A}=140^{\circ}$ and $\angle \mathrm{B}=40^{\circ}$
d) $\angle \mathrm{A}=144^{\circ}$ and $\angle \mathrm{A}=36^{\circ}$
12. In the below given figure $A B C D$ is a parallelogram, $\angle B C D=110^{\circ}$ and $B A$ is extended to point $P$ such that $\angle A D P=30^{\circ}$. Find $\angle A P D$.

a) $\quad 72^{\circ}$
b) $\quad 62^{\circ}$
c) $80^{\circ}$
d) $\quad 52^{\circ}$
13. Find the value of $p$ and $q$ in the below given parallelogram.

a) $\quad p=14, q=24$
b) $\quad \mathrm{p}=12, \mathrm{q}=22$
c) $\quad \mathrm{p}=12, \mathrm{q}=24$
d) $\quad \mathrm{p}=15, \mathrm{q}=24$
14. $A B C D$ is a parallelogram. Point $P$ and $Q$ are taken on the sides $A B$ and $A D$ respectively and PRQA parallelogram is formed. If $\angle C=60^{\circ}$, then find $\angle R$.
a) $72^{\circ}$
b) $\quad 70^{\circ}$
c) $80^{\circ}$
d) $60^{\circ}$
15. Find the value of $p$ in the below given figure.

a) $p=14^{\circ}$
b) $\quad \mathrm{p}=12^{\circ}$
c) $\mathrm{p}=35^{\circ}$
d) $\quad \mathrm{p}=15^{\circ}$
16. Find the value of $p$ in the below given figure.

a) $\quad \mathrm{p}=54^{\circ}$
b) $\quad \mathrm{p}=60^{\circ}$
c) $p=35^{\circ}$
d) $\quad \mathrm{p}=50^{\circ}$
17. The shorter side of a parallelogram is 5.2 cm and the longer side is twice the length of shorter side. Find the perimeter of the parallelogram.
a) 31 cm
b) $\quad 32 \mathrm{~cm}$
c) 35 cm
d) $\quad 31.2 \mathrm{~cm}$
18. Find the value of $p$ in the below given figure.

a) $105^{\circ}$
b) $\quad 110^{\circ}$
c) $\quad 115^{\circ}$
d) $120^{\circ}$
19. $A B C D$ is a parallelogram, find the value of $p, q$ and $r$.

a) $p=70^{\circ}, q=70^{\circ}, r=30^{\circ}$
b) $\quad \mathrm{p}=70^{\circ}, \mathrm{q}=70^{\circ}, \mathrm{r}=40^{\circ}$
c) $p=80^{\circ}, q=70^{\circ}, r=30^{\circ}$
d) $p=80^{\circ}, q=80^{\circ}, r=40^{\circ}$
20. In the below given figure, $C D$ || $E F|\mid A E$ and $A F| \mid B C$. Find the value of $p$.

a) $105^{\circ}$
b) $\quad 110^{\circ}$
c) $\quad 115^{\circ}$
d) $120^{\circ}$

